

Painler Nulzt Aconiz (1894—1957) was one of the prominent femata personali-ties of Romanian tino art in lies of Romanian time art in the first haif on this century. She altended the Fine Aris School in Iaşi. She travelled to and worked on the Black Scu coast, in the Greek islands of Creic, Syra, Myconon as well as in Asia Minor, which brightened up het palette. Her tyricism bears the mark of a solar mind, altracted by simple joyo, hy the quiet and balance presupposed by life in a sunny natural environment, with a generals and friendly fina and fauna. A slight nostalgia after the vestiges of old-line civitizations increases. civilizations increased the compositions she made on her fravels. The same sero-nity — a freshness of colours nity — a resumess of cobours resulting form a mixture of austerily and emolional involvement — also appear in the landscapes of Arges, Tulcos, Nandra Valley (201 Boats, Horse Shocing ele.). A good painter of the invited season of the landscapes. ward space and of urban landscapes, Nulzi Aconiz fol-lowed the tradition of the intional arts school, being Inclined lowards bulance and harmony. An export erlile, a well regarded commentulor of the Romanian artistle phonomenes, N. Arrlulogen-Anıza, slaled lhal "In the context of interwar painting, Nuizi Aconta's evululion is charactorized by an enrichment, despening and autheallo refinement of hor expression means," Her outclanding worship of boauty malerialized in touching artistic successes, such as Still Life with Gropes, Cloint Landreape, Muscel Landscape, Ballet Dancer, Home Interior, In the Woods, In

Autuma, In the Vineyard, In luşi, Tolcon Landscape.



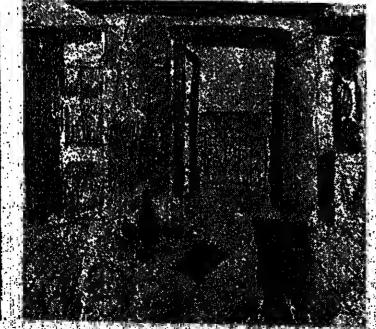




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WEEKLY PUBLISHED TY THE ROMANIAN NEWS AGAIN AGERPASS

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# ROMANIAN

**ELEVENTH YEAR** 15 (524) **APRIL 15** 16 PAGES - 3 LEI

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AM FRIMINALLY OF PRACE, UNDERSTANDING AMID INTUREMATERINAL CONFLATION

## THE OFFICIAL GOODWILL VISIT PAID BY NICOLAE CEAUŞESCU AND ELENA CEAUŞESCU TO INDONESIA

Romonion President Nicoloe Ceaușescu, together with Eleno Ceaușescu, paid an afliciol goadwill visit to Indanesia aver April 8-10, uppn the invitation of President Suharta and Mme Tien Suharta.

countries.

The two countries' gresidents highlighted the need for further sirps lowents a more dynamic growth of trule and of commit copperation in todastry, mining, petrolrum, agriculture, occan lighting, as well as other arous of Joint Interest, on the hasis of long-form agreements.

They also expressed their wish to intensity rutinest exchanges and contacts and emphasized the impartance of contacts at a governmental and purificance and emphasized the impartance of contacts at a governmental and other public organizations in the two countries. On surveying the international political and conomic simulton, President Nicalaa (causescu and President Subarto moted with satisfaction the identity or classness of Romania's and Indonesia's points of view on the major problems controllog maskind, the communique shours.

Firmly deviating for a complete otimination of nuclear weapons, the two presidents assessed that the signing of the

Inchag the visit — the communique released stans — the distinguished flormanian guests combined of filedal tabs with President Subario in an atmosphere of friendship and motion understanding. The two presidents expressed their salistarilans at the combined expression between the two countries and agreed to intensify them ever more in all arms of common inferest.

They underlined the particular importance of hossing and diversifying remained to the links between the two countries.

The two countries' greathents highlighted the need for further sirps lowned a convenient of other weapons of mass destruction.

on the liquidulion of other weapons of mass destruction.

President Nicolae Ceausesen and President Sutario dectary for the drafting at the UN and the earrying into effect of a complex disarmament programme, whose controplece should be the phased-out elimination of all nuclear weapons, chemical and ather arms of mass destruction, and which should also situated a substantial out to conventional weapons, irongs and military spending.

Romania and Indonesia emphasized the important rote of the Association of South East Asian Nations (ASEAN) in the development of cooperation among the member states, in ensuring their economia and sacial progress, a olimato of peace and unterstanting in the region.

The two presidents declared resolutely



## THE OFFICIAL VISIT PAID BY NICOLAE CEAUŞESCU AND ELENA CEAUȘESCU TO AUSTRALIA

On Manday, April 11, Nicolas Ceausescu, Ramania's President, together with Elena Ceousescu, started an official friendly visit to Australia, upon the invitation of Ninian Martin Stephen, that country's Governor-Generol.

During a meoling which the distinguished Romaniae guests, inunediately after their arrival is Camborra, had with the Governor-General of Australia and his with, the conviolion was expressed that the yield open, through its results, prospects for a more intens development of the relations between the two countries and peoples, in the motual interest, of the cause of peace, understanding and collaboration among maltans.

In Camborra, it is still a ni Nicolan Causacou and Eten Causacou and Australia's Prime Minister, Robert James Lep Hapse.

On balial of the Australian severation, Frime Minister, Robert James Lee flawks, charred that the visit of the Ramanian sead of state to Australia market as impactant market by impactant market by impactant market by impactant market by the life in the Countries and peoples.

If his turn Friesdert Nicolas Cenagement as relations being the tile, two countries and peoples.

If his turn Friesdert Nicolas Cenagement as a Robiania licad of state to Australia and collaboration as well as a line contribution, with the improve these relations.

placing them on tasting bases.

The talks were furiber conducted in the presence of the Romanian and Australian delegation members.

During the latin, cumphasis was placed on the line lies existing botween Romania and Australia, which have seen a continuous development on the basis of fully equal rights, mutual esteem and odvectage, on the possibilities of further expanding bilateral take. In that context, it was assessed that the persent recipies potential of Romania and Australia provided conditions for intensifying and diversifying bilateral relations, metaligner, machine building as wall as for intensifying and diversifying bilateral relations, metaligner, machine building as wall as for intensifying and diversifying trade. The importance was attended of setting the Romanian Australian securios properation of intensifying trade. The belief was expressed that the further derivending and Australia out in the belief was expressed that the further derived and Australia out in the life place was been actived to be contained to be presented to be contained.

The exchange of apintone on correct (cont. on n. 2).



### PARISTAN

The English-language Pokisla-ni newspaper MORNING NEWS published a special supplement devoted to Rumania which inuludes articles, commontaries and biographical data of Presi-dent Nicolne Courseson in a that clearly short period of time — the article entitled To-day's Romanin — A Country in Full Swing of Development alresses — Romania has Jurned from a poorly developed country into a slate with a modern industry and a fully developing agriculture, ami al luo end at tha carrent untiquentium it will become a medium develap-

After presenting numerous figures and data on the pro-gress registered by framuum in oit spheres, the neusnemer men-tions that Romania's development progremmes, very much like those at other states in the world, can only be carried out in a climate of international cottaboration, confidence, security and peace. Defining this positifie, President Nicolas Counsisses has imparied prinateledness and dynamism to Roma-nia's loreign policy, has given mas toreign policy, may given impotus to line expansion and consatidation of the country's international ties, initialing steady efforts almed all the constructive and lasting actitament of the motor lacues confronting mankind. In its loroign rela-tions, Romanta most tirmly promoles the principles of interne-tionoi law -- observance of anlionol independence and sovere-lgnly, lully equal rights, non-interference in internal affairs, nonrecourse to the use and threat of force, Turned into a political programme of initialiensured and guaranteed peoce-ful prorking conditions and com-piele security to the Romanian people, the Fakislant daily

In the article Romania's Prealilent, Nicolao Coautescu -- A Grent Here of Peace II is willten: For more than 22 years, Romania has been brillianly led by President Nicolae Coangescu. The Romanian people has entrusted its destiny to this greet ctolesman, in whase personality

of the entire mankind.
Nicolae Ceausesen is an neitre fighter for peace now that in the whale world conflicts ere the whale world conflicts ore uggravaling, new destructive weapons are stockpiled, and the fundamental right of peaple, of the peoples to life is endangored. His peace lattatives ero meant to open new recisite paths, with a view to re-establishing o climate of detente, ta seliting up a world free of weeners and wars. And it in a fruit pens and wars. And it in a fruth of our times that the progress domains of the economic-social life, its rantistic and constructi-

ve international policy make the whole world highly respect-ful of the prominent personality al President Nicolas Compount In the centre of its whole futernational policy, the article points out, ilemania places the fight for peace. In President Nirolas fichusescu's conception, this fight can only be victorians by Joining the clients at all penples, of the progressive realis-the larges all aver the world. The article called A People Trusting Itself apendes about

Remania's achievaments.

The unitary charneler of the socio-politioni decirine by which phenamena and questians of the rountry's internel life and af lia confemperary world are ap-proached, shows the article, illustrates President Nicolae Ceausesen's superior conception of society and people, his skill of permanently furning general theses into contrele realities, of defining, through a harmanious combination between theory and practice, a comprehensive programme of creative action. In full accordance with what madera scioned brings new, with

dera selence brings neur, with
the pregress of knewledge, with
the dynamics of reality liself.
The Ceangesen deciring is
founded on an active, innevaling political philosophy whose
central idea is the ensurance of
the country's mullilateral progress through the Romanian
people's own clierts.

Surreying the development of

Surveying the development of industry, ogriculture, ocience and education, the ortiole concludes that in the years when Nicolan Ceangescu, this great alelesman, the people has worked to acomplish increasingly more not
better, in order to show the
world what a free people, masler of its desliny, can achieve.

#### INDONESIA

THE INDONESIA TIMES datty which has a wide circulation, brought aul a four-page supplement under the title Remanin — A Country Militating for Peace and Progress.

The Indonesian readers were indonesian readers.

presented moments from the hiagraphy of President Nicolae Ceauşescu, his tireless activity. since early youth, for sacial justice and national liberation, for the independence of the country, against fascism and war, for the multilateral progress of Romania.

Then fallowed the presentati-

on of the main coordinates al Romania's international activity which bears the imprint of Pre-sident Nicolae Cennsescu's thinking, of his constructive endea-voins in the warld arena. Emp-hasizing the special alteration that Nicolae Ceauspace gays to the cradication of underdevologment, the newspaper paints out the way in which, nottining a unitary and well-extabilished alructure, the Homanian concept of infernational eronomic order uphates bath the necessity and the possibility of fulfilling this decideratum of the propica.

this desideratum of the propies, and points aut the ways and practical means by which it can be implemented.

The newspaper then set forli Remanla's successes in the years of socialism, the main directions of its economic-social development. Under the tillo A Modern, Dynamic industry, the road corored by the Remoulen economy during the hast two decades, the stress init on reaching high levels of dayclopching high lerets of davelop-ment, on stepped-up industrin-lization, on the basis of the gains of the contemporary tech-nico-golemitio revolution are

presented.

The article Science — A Prepotler of Civilization steeds light on the creefive contribution made by Romanian nelentitie research to the development of scalety, on the tasting ties established between science, rducation and production. flightlighting the successes scored by Romanian science, the article points out that the entire activity in this field is coordinated by the National Council of Science and Education headed by Academician Fleno Coaugesen,

repute whose prestigions acti-vity is directly related to tha setting up of scientific research units equipped with umiern means, to the argunization of science into a coherent, functional system.

The commonlary headed The Ties between indonesin and Romania See an Ascending Course shaws that despits the different social systems and great geographical distances separating them, the two emintries here found the way far a Irulifut collaboration hased on the principles of international law, a collaboration which has continuously developed in the course of time. Light is shed on the fact that a development of the bilatern relations has been played by the annualt distances, by the talks and understandings between the two heads of state. The daily passesses that the

The daily assesses that the nearly four decades which have elapsed since the establishment of diplomatic ties between llamant and indamental represent a period al expanding political contacts and exchanges of delegations.

contacts and exchanges of delegulions at various levels, of free develapment of the consumity lies, to which we should odd the activa work-logether in various international for far the premotion of constructive solutions to the major questions facing manking today.

The Bellita Buana daily published in Jakaria cerrial an article in which were presented the main dote on our country, significant elements for one's acquaintance with the high development rate of the national economy, the daring programmes of modernizing industrial activity, of corrying out the tendinamental directions in which the entire Romanian people's efforts

mental directions in which the entire Remandan people's efforts are now focusest.

The article entitled Remanda's President, Nicolae Ceausescu—A Brilliant Exponent of the Country's Foreign Policy empinalizes the main orientatian of Romanda's cellvily in the international areus, President Nicolae Ceausescu's determining contribution to the claboration and translation into tife of the Romandan forcian policy, the inestimable cantribution of the Romandan hend of niale to the promotion of the cause of disarrament, cellaboration and peace an our planet.

arinament, cellaboration and peace an our planet.
Romanic's preslige today—
shows the newspaper—tx eloacly linked to the thinking ami astivity of the man who has been leading it for more than two decodes, the eminent politicalan and anintesman well known and appreciated in the world—
President Nicolae Coansescu.
Also printed was the article headed Romenla's President, Nicolae Cecusescu. A Presiligious Militant for the Developing Countries' Access to the Latest Dreakthroughs in Science and Technology.

test Breakthroughs in Science and Technology.

A special place was held in the name newspaper by a commentary on the powerful dovelopment of celentifle research and technological engineering in Romania, entitled Science — A Gato to Social Pragress. The commentary points out that nuder Elena Ceausescu's guidance, the molonitie research activity has acquired great acope and significance, a modern structure signilicance, a modern structure and a new slatus, being closely integrated with education and integraled with educat production at present

#### AUSTRALIA

THE AUSTRALIAN daily isoued a richly illustrated empplement devoted to Romania.

Under the fillo The People's
President the daily presents
hidraphical data concerning the
life of President Nicolae
Ceaustree and his rich solivity
at the head of the Romanian
party and state, pointing out
the presentity of the Romanian
stateman, the presider onfoyed
throughout the world by his ifraises antivity deveted to the
breallon of a better and more
just world on our planes.

In the pripie For a World of
Friendship and Peace the daily
rius that the year and fruitful
activity for the continuous development of relations of collaberation with all the states of
the world regardless of social

system, goes down as one of its defining guidelines of the le mantan foreign policy, teads tently asserted over the last in decades, since President Meiu Ceangrava, o prominent promitly of the contemporary world, true chosen to lead its manta.

mania.
Presenting the policy of bod. collaboration promoted by E. loreign relations, the stiffs reveals that the impressive denames of this process, the con-tinuous development of in-ties with all states of the work regardless of social assisting ac bused on the broad promotic at the summil dialogue, on the lalks held by Prosident Nicole Counsessen in Hamunia or deing his numerous foreign villa. The illustration of information penca and collaboration is con-tries on all contturus represe reference moments in the che-nicle of finmanic's relationship-with the socialist country with the developing states, unall countries.

Hends of sinta and gones

ment, personatities of intenlite, runs the newspaper, but expressed their high considertion for the principleduced the Romanian foreign point for the consistency will said florantia promotes a system of new interstate relations, in fe consensus with the imprica-needs of the epoch. Romani-broad international action. stems from a unitary contents based on the principles of misnal independence and some ignly, equality of rights and all states, namplerference b lamentio effuirs, muival adrelage, renunciation of the w and threat of force, observed of each people's right to den-top and decido upon its or destiny by likeli — principa whose application is the latter guarantee of dereloping a tra-

tries and penpies. On the basis of analysing it ebjective reality, Presides Nicolae Coauseach consides that the vital imperative of peree and scenrily, of sciling op's world without nuclear wespec world without nuclear weapon without wars, requires the latitutional transcover a cultable in the conditional framework is with the conditions of a real collaboration and of a peacolal is active conferring from a retirile, incle appraisal of the well-situation, in the interest of city people, of international city derivational Nicolao Connectificant of the retirile in Nicolao Connectificant collaboration provides and latitative post the postitive results need in its appraisa of bitaleral collaboration but also as significant conferring the spinere of bitaleral collaboration and as a significant collaboration as a significant collaboration as a significant collaboration as a significant collaboration and as a significant collaboration as a significant collaboration and collaboration as a significant collaboration and collaboratio the positive results accretion sphere of blialeral collaboration but also as significant coefficients in a mafognariles leterally stims in anafognariles leterally unit posees. In the wide-collaboration of a medicar significant of orecting a belief algorithm of a medicar cally important of a medicar cally include concerning the future of include and include commentary carried by the daily covaria the store of Romanian solentifies research of Romanian solentifies research devolopment, contributing and for-reaching programmer and plans. The results phissis and directly relocked to the solids.

so for, easy the newspaper directly reloted in the solivit dir tights the fact

ARD CARTARRATACIONALES EMPLARAMENTARION TO INDONESIA

economic order were imperalico

requirements for the procies' peace and accurity, declared far the heiding of an internalismal

conference within the UN, par-

tisipaled in, on on equal looling,

ed Issues.

Romania and Indonesta firm-Inmania and Indonesta firmty militale for a comprehensive,
just and tasting antuition to the
atthila East problems. The two
concires are for the ceiling at
an international conference on
the Middle East, under the acgle of the United Natians, to be
attraded by all the shirs concened, thehading the Palestine
Liberation Organization and Isract, the DN Security Connell
germanent members. permanent members. Homanta and Imlenesia de-

clare for the humeritate cessation of institutes between Iraq and fran, far the undelayed withdrawal at all toreign bat-fishing from the finit, the essention of any attack, the securing of Iren navigation in the region, and for the penceful, acquiried scittement of the direct between the tree contents. lisputes between the two coun-

Romanta and Indeposit deiril actitement of the stination in Kampachea, far a bread na-tional reconciliation of all lertional reconcillation of all lur-process and the sormeting of Kam-process, independence, sorc-reignly, neutrality and non-alignment. This requires the withdrawal of all terrigal troops and the cosmittan of any infar-lerence in Kampucheo's infer-Romania und Indanisia relie-

tomain and imminista refle-lation results struggle for the cradication of colonialism, for the consolibition of uniten-I intependence and Indepen-

The President of Romania and the President of Indonesia accessed that he actilement of ine huliding of a new

den to the steretoping countries, for the establishment of a new,

by both dryeloping and devel-oped countries, in arder ta re-ach mutually ucceptable salullans to eronomie Isauce, inclading the issue at the globat scillement of Inreign dehts, which are an ever hearier bur-

AM JUNEAU CHE MARKE, REPUBLICANIAM DE LA MARKETTA DE LA COMPANIA DEL COMPANIA DE LA COMPANIA DE LA COMPANIA DE LA COMPANIA DEL COMPANIA DE LA COMPANIA DEL COMPANIA DE LA COMPANIA DE LA COMPANIA DE LA COMPANIA DE LA COMPANIA DEL COMPANIA DE LA COMPANIA DEL COMPANIA DE LA COMPANIA DE LA COMPANIA DE LA COMPANIA DE LA COMPANIA DEL COMPANIA DE LA COMPANIA DE LA COMPANIA DE LA COMPANI

Sullsfactian was expressed of formanian-indogesian collaboration in international lite, and the turn presidents, the commuulono points aut, decided on its

intensification within the UN

within the Group of 77 and the unn-aligned mayoment.
Nicotae Ceausiscu and Elene Ceausescu extended to Fresident Subarto and Mune Tien Subarto the invitation to pay on official visit of Iriendable accepted with group description. was accepted with great pleasu-



## TO AUSTRALIA

Aspecis of the world political life erinced the closeness or identity of the two countries points at view on the questions approached.

The International attuation was aspected to be still sorious

and complex, and onplists was placed an the need far peoples to intensity their light for balling the dangerous course of atreals language confrontuitan and rar, for the assertion of the policy of delente, security, peace, undersing and rollaboration among unitons.

Il was shown that the heli-ing at the arms race, a passage to discriment, nuclear first and faremost, out the ensuran-ce of world peace were fundamenini problems, in that con-lext, il was siressed that erary-thing possible should be done far the cauchusion of new ac-cords with a riew to liquidning all nucleor weapons, far the cessalion af uncienr lesis, the

militarization, and the reduction of conventional weapons, traces and military spending.

During the talka it was assented that the hutiding of security and ecoperation in Europe unnit exert a positive influences on the inferantiqual political life, and would meet all possi-

life, and would meet all pea-ples' interests.

Romania's President and the Prime Minister of Australia de-

econnmic situation stress was laid an the algorificance of solving the questians related to underderelopment sad the boliding at a new international order on the basis of full equelify and equity in intersials relations.

use and threat of force from international life, the cossaring af all milifary confibrts in vertaus parts af the world and their peaceful, negotialed actionent.

In connection with the world accounts alterated these world accounts alterated the second accounts with the world accounts with the world accounts with the second accounts wi

tions.

President Nirolne Coausorcu showed that Romaoia thought an international conference should be called within the UN and nilended by ell developing and devaloped rountless, on an equal footing, so that mutuelly acceptable salutions be bound acceptable to the extremely his relating to the extremely big debts burdening the devoloping

debts burdening the devoloping countries.

The determination of Romanin and Australia was expressed to attengthen their cooperation within the UN and other interactions: budies, activoly contribute to neiving lim major problems facing munkind in the propers interests, to soliciving a lasting peace on this planet, establishing new-type, democrelio relations among all nations, underlain by the principles of fully count rights, respect for national independence and apvereignly, non-interference in internal affairs and mulat ad-

reference was made to fine to the fine to te's governor, Watter Campadil, reference was made to the fine relations that have been established and develop belween Romania and Australis. In Eries bank. Brent 6 on 1 Nicolas Connicotor received a group, of histographic with wheth he disconsist apprinciple when he disconsist apprinciple when Australian fifths and Remanian puterprises.

On the limit less of their Australian relation and Richard Noolan Conniction and Richardon Noolan Conniction and Richardon Noolan Conniction August 16 guests of the state of Western Augustic.

## LEIPZIG '88 HIGH-STANDARD PARTICIPATION

cables and conductors, lighting liens, etc. Mechanical caginoer-

his year was represented by 14 ken part in the Leipzig fair was highlighted by the organizers loo, who granted diplames of honour to MASINEXPORTIMPORT and INDUSTRIALEXPORTIMPORT for their regular partiripation, for 35 years, in the lair and for their contribu-tion is the expansion of the trads between the Socialist Ro-public of Romania and the Goenon Democralle Republic.

Yet il was not last the traditional nacife polion that brought specialists and visilous togother around the Romacian stends but nisa the diversity and high lacknisa he diversity and high lach-nically of the Ramanion enter-prises offer as well as the al-tradive way of displaying the exhibits in the fields of electronics, electricat engineering, mochanical engineering, melai monufactueing and others.

As engineer file Paunesou, di-rector of Romenia's pavillon at Letpzig '88, said, "ELECTRO-NUM pul on view a wide range of computer lectuology means, peclubecal equipment and elec-tronic automation daviess of great relipbility and applicable filly, while ELECTROEXPORT-IMPORT setected from its lelected appert-bound products a number of gleotric maters, mi-

ing was richly represented in the stands of UZINEXPORTIM-PORT (ships nud complex equ-ipment), MASINEXPORTIM-PORT (talbes, drills, boring ma-PORT (laibes, drills, boring machines, unils, olectro-crostan machines), UNIVERSAL TRACTOR (tractors and larming machines), INDUSTRIALEXPORT-laiPORT (equipment for line lood industry, mining and oil industry, pumps, clc.). The anorgy equipment exhibited by ROMENERGO, as well as thoi exhibited by CONTRANSIMEX, for iransports, rounded off line Romanian offer, next to line metallurgical end fino mechanics products brought to the elicinium of specialists by ME.

TALEXPORTIAIPORT and TEHNOLIMEX (products exhibited by line food products exhibited by line for line machine tools of into Romanian machine tools of the spring fair in Lelpzig, in spite of the vigorous compotition and extigency monifest.

"As a nation of fact" — line director and extigency monifest.

"As a nation of fact" — line director of into Romanian pavilion wonl on — "wo received unnimous napreciations for the quantity of our products and out-line wonl on — "wo received unnimous napreciations for the quantity of our products and out-line wonl on — "wo received unnimous napreciations for the quantity of our products and out-line wonl on — "wo received unnimous napreciations for the quantity of our products and out-line wonl on — "wo received unnimous napreciations for the quantity of our products and out-line wonl on — "wo received unnimous napreciations for the quantity of our products and out-line wonl on — "wo received unnimous napreciations for the quantity of our products and out-line wonl on — "wo received unnimous napreciations for the product NOIMPORTEXPORT. The pu-blic was also aliracled by ibe food products exhibited by FRUCTEXPORT — ROMAORI-MEX and PRODEXPORT and

MEX end PRODEXPORT and by the books, newspapers, megraines and olber publications brought out in Romanian. In 
widely-spoken languages and in 
the languages of the nationalities is Romenia, on the stande 
of the ARTEXIM and ROMPRESFILATELIA onterpriso. "Among all these", our rollopulor went oa, "both the spedialists and the publics interest
was aroused by be INDEPENDENT 196-F computer, the universal tradier of agriculturaland industrial use U393-DTC-IF.

irrctor, slanding out by lbeir robusiness and reduced fuel consumption. At the same line, iba increased procision and the possibility to fit them with a wide range of tools lay at the bests of the snecess accord by the Romanian machine tools of the spring fair in Leipzig, in spite of the vigorous competi-

niture included), drinks, books, e.s.o.

"The parileluniten of Remainian enterprises in the fetuals '88 lair occasioned the conclusion of significant imperi contracts, the main goods to be acquired from the German Domocretto Republic being machine loois, automabilies, clectronto components, chemical products, books and olbers".

Taking all like into eccount team to assessed that, Homania's presence at the Leipzig Spring International Fair was a major contribution to divertoping the contribution to divertoping the benealt of both princips.

ALEXANDRU MARINESCH \*\*

equipped will a front charger, and the TH-582-DTC industrial ALEXANDRU MARINESCU

ights the fool that appri from the point of view.
Australid are now then eyer leftore the point of the fool that the fool that the fool that the fool that the were entablished have were entablished have were entablished have reflered the multiple of programment and polates from entablished have were entablished have were entablished have were entablished have reflered the multiple and polates from entablished have been applied with all the programment and the polates from entablished have been applied with all the polates from entablished the programment and the programment and the polates allow extends the polates allow the polates a



nallonal Fair gathered o large number of exhibitors fram 74 enuniries, Among the Iradito-nul enimute into like confest there was Romanin too, which foreign irade componies.
In fact, the consistence with which Romanian firms have laken part in the Leipzig lair was

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# INFORMATICS, COMPUTER TECHNOLOGY AND PROGRESS

In Romania, a country bossiling a compelitive hardware production and to meet all the require-ments of an economy in full swing of modernizaments of an economy in this awing of inderina-tion, computer technology has rapidly expanded from the roalm of economic management to that of design and production, of controlling technological processes. Graffed on to nearly all conventional technologies, the computer ensures superior conuctive and functional parameters, on a world

a single sicel wocks.

MICROCOMPUTERS IN METALLURGY

Based on the success registered by the introduction of interdecomputers at sical works No. 1, represents for the Metallurgical Plant in Cimpla Turzil as advanced stage of promoting informatics. By means of Coral and Ecorom computers used by all four lumaces of the sicel works, that process of an arge manufacturing in aniomotically controlled, energy consumption, as time and intensity, has been reduced ecorolling to the quality of sicel types obtained. The results are good—an alcelrio power economy of 1,000 Mwb annually from a single sicel works.

Now, the work from of information eclentisis is rolling will

Now, the work front of information selection is rolling all No. 4, where a micropracessar was installed in February. The electric power economy achieved after the improvement of consumptions will be of 100 Mwh. The programme far 1888 pravides considered and the solutions for the mellocotion of 15 process applications for the automatic coordination of certain lacknologies. Computers ore used for the elaboration of siecks with alloy modules, applications being developed up to the automation of sleets which the computer of the computer.

modules, applications being devoloped up to the automation of siloring chemical lesis from the quantometer on the computer. Through the computer control of rolled plates, his thermal treatment with all its implications upon consumptions will be eliminated, loading to an estimated contomy of 1,000 lons of conventional fuel yearly. Informatics has successfully poneirated the deawing works for high alloy steel where, besides equipment control, the computer will also store certain quality parameters like limit of otrotahlog sirvin, yield point, maximum tear force, etc.

malerial and energy inputs, huproving the page at production, enhancing its quality and, last but not least, adding new significances to the human astivils. The most speakerdar results were obtained in aluminium manufacturing, fine mechanics and elec-Ironics, nol to meetion the Inel that today the control of the unitional power system, the computeralded design and construction of highly complex Leading sectors of the national ecosomy have acronautic, adiphuiding or electronic products resorted to computer technology and informatics would be inconceivable.

Below, we shall refer to the latest informalias product, mo-and for the operational coordi-nation of production processes, called Dispecer and deviced by the specialists of the Computer Technology and informatics in-stitute in Bucharest, The sys-tems of this informatics lumbs. teine of this informatics lamily wore floulized with the help of Corat and Independent M 118

#### CYBERNATION ROAD TRANSPORT A conversational information aystem, with treminals in the

aysient, with Irrminals in the number sectors of the Bucharest Huad Trunsport Central, he shirted to be used in the aperation of vehicles and the draying up of transport plans, in the next stage, until he end of 1988, this system win nisn supply the necessary diston the carrying onl of the plan in the central as a whole additioned county enterprise. The against he operated by the central own personnel, treing structured on a Fedix womunior and other enulmment under in Romais. The drawing up of the plan, with breakdowns for the central and life 42 submillulated enterprises, by means of the comparises, by means of the comparise. and he de autorilitated enter-prises, by means of the compu-tre has saved a cansiderable volume of work which would nurmally have been performed by 830 people. The monitoring of internaliment iransport order through the canversational information system has resulted in a better utilization of the in a better utilization of the rexisting resources increasing the number of Iripa made by each vehicle and rendring relumitips fully efficient. Consequently, while a sevan per certificroan in the utilization of franchord rapaellies on relumitions of the contraction of the contraction. trips was originally outland, at it per cond increment was even-trailed, which was he equivalent of an annual cross-mile circlency worth some at mitten let in additional profit.

The fact that each country was the letter of the country worth and additional profit. road transport enterprise has he own information system is a fundamental prerequisite for their connection to the rental information statem. To this ent. information sistem. To this est, a Felix 5:00 computer has been acquired, the latest and most advanced creation of the fischirest Computer Factory, with will be connected to the asistant feedinaprocessing network and therefore, to the county centres, making possible the moultoring of road transport throughout the country.



recompalers. Through the use of specific mathematical models and performing algorithms, the oplimum variance of the production programme can be computed in a few minutes. Moreopoled in a few minules. Moreover, through ihn adequate end ver, through ihn adequate end ceasy means of access to the compuler, the production dispatches can obtain numerous picces of information rogarding the current stage and history of the production process, as well as assessments of the various dealstons man could take. Thus, the Dispenser programme is a complex system assisting deolation making in managing production, making it possible to blend the huge memorizing and calculation capacity of the computer with the human knowledge at the chemical works of Midla-Navodari, first and Timisoars, at the pulpand paper plant of success works of Midla-Navodari, first and Timisoars, at the pulpand paper plant of success works of managing processes. Working with goods results are informatics systems for managing by control works of calality at the similar works in Regis there is

consumption 1 at the auminius consumption 1 at the auminius in computer monitoring the steam older older variable. Republica works to Subject these to a system operationally. controlling production in 1886, the National year gramme Bank set up by the gramme Bank set up by the Computer Technology and in Computer Technology and in Computer Technology and in the set up by the deep the

conomies of hundrods of lon lel.

The programmes schere the institute's specialisis of computer-aided design isolda. Arisis are experient the GDR and West Ground Cacchoslovakia Anales Cacchoslovakia Anales Canda and India.

On this page View the the computer dealers as Ministry of Transport and Telecommunications and the Iron and Slass were soom puter (centre) and is computer (centre).

## SHIPPING SIMULATORS

lute of fiesearches and Technalogical Designs lu Transportation are the Hight simulators for various alreraft and the simulators for lifesel and Diesel-electric locomotives bringing together mathematics, robotics and mechanics. If symbolism theorized the creation in poelry of synexthelic nensatious, the subjects mentioned above did guito the same through emthemetical medelling and informatics technologies, recreating on orificial universe generaling tension

This orlicia proposes to deal with a lamily of shundators, meant for training marchad marine officers, which have attrady been maunied at the Constants Marchant Marine Personal Training and Development Centre. The opparatus, said our colloenlor, engineer build liarbos, hrad of the shuntainr section of the above-mentional institute, "onewer certain requirements related to both the training of marine officers and the luternational regulations increasingly mare severe and extgral as regards the Iralulus of marine affleers given the growing ably troffic and tonnage.

Ohylously these ore safely measures almed at avaiding colli-elus and the pallistan of the world ocean. At present, these international rules slipainte that marine afferre should previous-ly be trained on nimulators.

One may naturally wonder why. It is because simulatory train pupils intensively, placing them in special altimitims which alterwise they would meet quito seldem in their daily articity on the slip. The pupils can then be asked in steer the ship in access with a heavy traffic and certain restrictions as the Bosologues strail or the Helicity. Bosphurus strall or the Britta Channel, where ship

As is known, there are deck officers and mechanical officers, The former manueuvrs the only, while the latter curve the per-fect functioning of all installafeet functioning of all installa-tions, prompily answering the requests from the routed deck such as aftering the engines' speed or the ship's praputsion force. Sometimes, our rollocu-lor suid, averling a rullising de-pends as much on the skill of the officer in control as an the pramptorss of the identical officer.

In the last few decades, the transport of oil products by ships has gained momentum, Oil lankers call for special training both or regards the handling of goods and environment pollu-lion. The condition of the sea is arinally monitored by satellilow. which signal any leak of oil and the ships responsible for this arn sauritoned by virtue of strick



From the terhnical point of From the terminal point of view, a simulator is a very rumplex product whose creation starts with a minute analysis of rquallons describing real processes. From the anthematical viewpoint, told us ong. Infinitely, shuntation needs are even more complex than those even more complex than those of the ship's designer. In geneof the ship's designer. In gene-ral, the designer is interested in the analysis of maximum valu-es, of the apparatus functioning at maximum values, while si-mulation must cover a whole functioning domain, from the stopped vehicle to the ve-body. hicle in the most varied si-luations, in order to cover this complex functioning range, the speciatists try by find a set of equations which should daol equations which should dancelle, and continuously salve all situations; this is the mathematical model. The second difficulty is that of finding a computation way solving this mathematical model in the coal line, the one in which the phenomenae takes place to reality. Because the mathematical description of a process happening Because the mathematical des-cription of a process happening in a second can sometimes noethall a day of computation. The effort is therefore of aynobro-nizing the mathematical do-neription with the carrying out of the process, an essential tising in the case of a nimulator. Thore arn several ways of solving this problam. The first is to find

ly the model the second is in use a powerful computer and the third is the creation of sir-

ly the model; the second is in use a powerful computer, and the third is the creation of sire-claitzed computers.

The third research field in the inflict inflict research field in the inflict inflict research field in the research field in the research field in the research for the navigator. The researchers are using at present only three of man's senses the related for the navigator. The researchers are using at present only three of man's senses the related field in the simulation of the data received by man are visual; some from the board equipment, the other from the surrounding landscape. And while the simulation of the board equipment, the simulation of the most delicate problems in the simulation of the landscape is one of the most delicate problems. In the simulation of the industry, the simulation of the fauthcape is one of the manuality of the present of a complex navigation simulator through the introduction of specific radionary gatter equipment nod later through the creation of the image. For the nimulation of additive sensations, electronic synthesis systems are excusively used at present. The simulation of kinesthelle feelings involves power hydraulic actions ourrelated with the generalloo of vibrations. All these elements are computer realisated with the generalloo of the related with the generalloo of of other necessities with the generalloo of of other necessities with the generalloo of the naval simulation, the mentioned collectivity collineacied with the money which there is niso ICKFRONAV. Mention should be under if the facilities the

mony which there is also iCRPROYAV. Mention should be made of the fast that this achievement is ewed to a multidisciplinary collectivity, a no of the source of the lustifule, decided to neare performance researches and which has researches like engineers forth Dumilrescu. Mentre Nicoloccu. Bogdan Motoc, Nicolee Salarolu. Mahematicism, nicetromalis, apecialists in hydranics, informalist, nichanics, opiles, paycholagy collaborate with this team. They have a decidive rolp in the peciolo golivity of the people instructed and in the last singe, the improvement of the nique. ICEPRONAY, Mention MIRELA ROZNOVRANU W.

The photics on this page Rhow safects from the fran-ing of fullite taxlestors on the simulators deligned and built by Romanian experis



### INTENSIVE INSTRUCTION

Correspooding to various nparialisis (deck officers and nechalisis (deck officers and to the ships meant for spacial loads lingkers) a programme was introduced of the almulation lab, in order to create a new family at naval almulators, like like rader simulator for ace navigation and the naval machine almulator. The almulator for founding-unloading oil inskere is mader construction and a river mayigation almulator to he mounted in Golati et the instruction and Refresher Centro for Warkers in the Morchant Maria, is under sludy.

The question of the radar nices

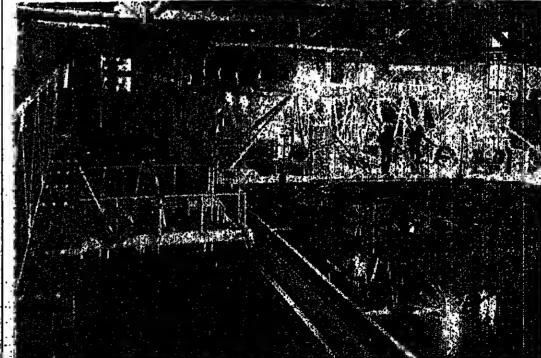
The question of the radar ni-molatar is that of genoraling a radar picture very close to the real one considering the sentireal one considering the confi-auralian of the shere, the ships navigating in a certain area. It ran simulate e limit situation in a lack, a convoy, a narrow pas-isage, un incident with serious readls. This is a navigation si-mulator because it has at its dis-posal not only rodar images, but also manocurre possibilities so that the traific could be confi-nced in conditions of sofety. acd in conditions of he difficulty of this s consists of processing a large graphity of dain over a chori-teration of the control of the creation of a specialized com-

The naval machine simulator starts from the real configurastarts from the real configurastarts from the real configurastarts from the real post of a main control post of a 
ship's chightes with all apparaextent and from a room start or really 
start and from a room of the really 
she engine room of the reality 
she of the leason, the sationdident can be placed in various 
chemical makes elarting with the llances clariting with the off, the cruise and the

mooring. Al any moment, the instructor ran oreale states of mainmetion which the student must learn to solve. The main idea of this instruction method is not to teach the sludont bul to Iralu him. The simulator has in view the subjects' training in order to create prompt responnes according to the given situ-

A sea cruise, for example, can last for weeks and can be without difficulties, but it is also possible that all a certain mamoel, a malfunction could co-

meet, a matruretion could co-me up, and a poorly trained oa-vigator rould caset either too late or make mistakes. The gravity of these attuations in-

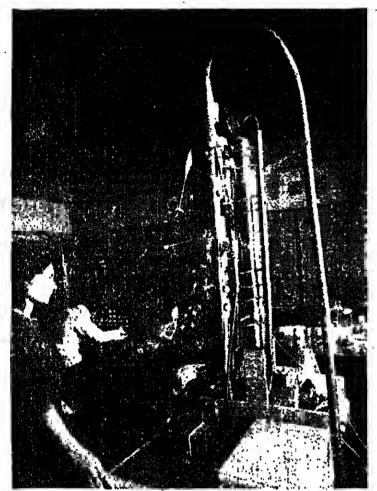


#### IN THE ATTENTION OF ROMANIAN SPECIALISTS

ASIA AND ARRA

The rediscovery of traditional medicine represents one of the important acquisillops of praimportant acquisitions of pra-sent theropy. Phytothornpy of the re-evaluation of curative herbs by means of metarn getence holds pride of space. Our story will be exulusively devoted to Romania's contribu-tion to building a pharmaceu-tical industry based on medici-nal herbs, in some Asion and African countries, the Romanion apecialists being considered among the eitle in the field, among the life in the world, UNID() leaders often using

Mention should be also made Mention should be also make of the fact that upue the proposal of UNIDO leaders Romaula built two pilot stallons for the extraortion of active principles from sponiaucous flora and controlled cultures. The first, located in Rwanda, was built by the University of the Proposed Chamber 1991. the Buchares! Chemical Equip-nent Enterprise. The second one, meant for Tanzania, was based on an original design (anthor: the design section of the Industrial Central for Drug) and Cosmelled and executed by



their services. Thus, in Burbo-real were organized training programmes for specialists for the empilalization of medicinal the enpitalization of medicinal herbs, sensitors in which parillepated delegates from Contral Africa, Zatre, Cameroon, Burnidt, Madagascar, Haiti, Guinea and Chud. The lectures were hold by university professors, by specialists from the pharmaceutical industry and rescorch institutes. Dut, besides theoretical courses, there were also practical courses, there were also practical alfules. Dul, besides theoretical courses, there were also practical works and visits to specialized enterprises. More exactly, delegales from them world countries came to Remania to learn about the way medicinal herbs are identified and cultivated and about the most officient mast medicinal ways of ob-

varen and about the mont offi-alent, most modern ways of ob-taining natural drugs.

Also collective units made up of boundsts, chemists and phar-maoists wern sont to Africau and Asion countrie, the purpo-se of these missions belief to and raion countries, the purpo-an of these missions being to instruct and train specialists in these countries to calalogue me-dicinal flora and find berbs with exceptional tharmouth virtues and last tou not least to with exceptional tharpoultic virtuos and last turinot least to inlprove icchniques for the pharmaceulical processing of these gifts of unture. In Afghanisian and Nepai for representatives of the national phormaceulical participated — professor dr. Ovidiu Bojor from the Institute for staig drug control and pharmaceulical research (koown has a feetind anihor of original drugs) and fon hines from the UNIDO price. The ather research phasion is Sudan, Rivasda Tanzanid, Burundi and Bolswinha was entrusted to a collective made up of pharmocists Adrian linganu from "Biofarm", Liviu Negut from the Bucharest Drug Factory, eng. Entl Paun from the Oxperimental stallon of medicinal berbs, at Fundules and eng. Joan Mines. After the regarches of priced the responsive countries could pass to the signification of the constitut for the countries could pass to the signification of the constitut for constitut for the constitution of the c the Fadras Chemical Equipment Euterprise, in the meactime, Romunia continued to
offer specialized assistance to
developing countries. Here are
several examples I the experieace of Romanien specialists
was communionted in Cameroon
and Mall by agronomic engineer
Anastasia Naum, to Algeria and
Cameroon, by chemist Constacta
Rizescu, in Burundl by prof. Emanoil Origorescu, in Tanzania
and Doiswana by Adriau Igauu
white Ovidin Bojor returned to
Nouel for a longer period of
time.

These are evidances of colle-boration and solicituda among world sinies, are exemples at-lesiting the informational presign onloyed by Romonion specia-

LIVIU TIMBUS M



The action of multilating posts with the kelp of their natural cuemies has been successfully initiated in according countries of the world and it is about to replace the use of postirides, chemical substances which, though important, with the passing years, have proved to have nexious effects, Here are a few details from a Hemanian expert, dector of biology Ghearghe Miliotache, a arientific researcher at the mediants of Silvindingal Researches and Developments, the coordinator in the research domain of the blulu-gleaf forest nest management in the silvicultural sector:

"Anvang forcet peeds" — our colfocutor sayu — "phytophagn rank first. These exicilators multiply abundantly and they constitute the most important group of furest peeds. I think it is enough to mentium that they peeds, can produce huporiant lesses of forcet blowass (70—100 per cent from the annual growth) and the vitolity of the lices can be reduced a following to them.

"The idea of subdular unture has been for a long time of a periodic by which man has arowned himself the absolute master of the plonet. But selecte has reached the conclusion that man should profeet nature, not subdue it, that hie observed of survival depend on complying with the blological balances of survival depend on complying with the blological balance, it was on this busis that the activity of forcest protection was

born of the Institute of Silvi-entitival Rescurction and fleve-lopments.
"Judged, within the while con-

text of ro-union between mun and nature; techniques of using

and nature; techniques of using microbiological preparations in fighting forest exfoliators have been eleborated and epizoticology studies have been inkentup. In this action researches have been conducted by our institution and by specialists of the Ministry of Silviculture.

Investigations have east light on the existence of natural epizoolies in acade formats, which prevent the wide-scale reproduction of peats. Researches into enlopalitagenic bastoria have established the painagenity of various heads of the Bacilius thuringensis barterium as against the main defailalors, their degree of sensitivity at in department responsible to the second contract of the second contr

In keeping with the unliner afformation programme, 14,700 hectares of highly degraded soll, until for agriculture, are to be afforested in Romania lists syntage, which will bring into the coonemic circuit wide laud areas, especially in Constante, Tulcea, Buzhu. Vasini countiles, regions fa which the harmful effects of the drought and floods are still fully manifest.

These operations are carried out in parallel with restoring sheller helts and communications, which allow of avoiding the negative consequences of climatic factors reducing or causing the lustability of crops. Over oil the areas that are to be afformated, seedlings of indigenous deciduous and conferous trace of great economic value will be used, so that their alructure may ansure libe creellen of healthy and productive forests, with increased projective and productive functions.

In 1900, Romania will have a tolal area of wondland of 8.6 million becomes, accounting for 27 per cent of the country's territory.



plying singes, nections of plying unicohiological inchments by planes, beliepies land equipment, cie, Wa or neart that presently Romer. is among the few condities to the world where the bloomer to bloomer control of tree prais with the tertal preparations has passifrom the slage of less to the

control of free prais with he terial preparations has passi from the stage of lesis to an of application in production of application of a VNP-apple of views from larcas of larcas of the same time studies have by to the some time studies have by to the some times and actually, which in the clientalic and reclered conditions of Romania productions of the lateral by defoliators. Meater should be unade of the lateral by defoliators. Meater should be unade of the lateral by defoliators. Meater should be unade of the lateral reserves of colonomia and his proved anonymitogeness in the proved anonymitogeness of the stage of th

"What is the fulure, or new weapons?"

"The hulding for the list into in Romania of at the prise specializing in the prise specializing in the prise specializing in the prise specializing in the first are constructed in the first are constructed in the first amounts of the Resident in the properties of the Resident in the first amounts of the Resident in the properties of the first amounts of the Resident in the properties of the first amounts of the Resident in the properties of recent years have been sent in sivilouliure. Resident in the past investigation of the first interest will include blongists white was all treatments likely the seal includes the properties of the past reproductive beds without infection in the programme for the seal in decidents forced all the prise to the programme of the programme of the prise sealing worked out to be applications of a selective sociological resident in decidents forced all the prise to the prise the programme for the prise sealing the programme for the seal residents.

Oils alones. ifly activity has been acknowodged by numerous internatiohal awords and offices. In 1983, he was appointed active mani-ber of the New York Academy of Selences and "Academiciau of the Nations", a lille gracied by the United Nations Internaflood Centre of Studies and Re-

On ible page, views from meetings between Romanian and foreign specialists in the projection of sachiloutural monuments and from the reconstruction of sastemical delatis through combined and sectionists methods

iotion of constructions, for thu thermat prulection of constructions through reflectorization, in building light list or valued coofs. They can also for used in shipbuilding for tinaling islands, off-shoro drilling platforms, seuranceys, floating docks, bathy-scaphes, and, glying imagination full pluy, even floating seatowns.

eame a member of the Bedrin-census Academy with the title of professor academirlan and was cirried member of honour of the International Confederat-inu of the Order of Arlists, Fi-nally, in 1984 he was also aw-

Al the age of 58, sill young at benet, Diau Mornru kee's biazing new tratts. Nothing else but his jahoralory work, aching

olse bul music (there are about 1,600 recurds in his book-case) and reading [6,000 books are orowded in his fial, making cir-culation prelly impossible) in his leisure.

A few years opo, Dinu Morn-ru asked like aupply office of the calerprise where he works to send one thousand labic-len-uls ballo. The bookkcoper inqu-

ired if it was not some kind of a joko or a misinke, Bul Ibo Another invention of his is the so-called "hydrophobe water", a surprising unme show water cannot be the enemy of water, in fart, it is a kind of useriar improvement which prevents the practical of water into concrete structures. The layertion has been applied at a few blucks in thecharest and several contrarts have been algued with county enterprises for its anticountries more men algory with rounly enterprises for its apil-cultur. It is not difficult to four-give that futuring the expan-sion of this method dampness in footblook will be a curable

mini-spheres for nrhleving cel-lular structures, therefore ma-torialu with inner vuids which ean be used in the thermologu-lotion of constructions, for thu

MIUAI BUMIDE W



ne, at the beginning of this cen-tury, engineer Guslavo Elifet-francing of our great compo-triol's disravery faund it only na-turat to call it thu "Counda elfect".

conserve monuments; the diser-very pelongs to him ludged, but its anno does not. It was artu-ally suggested by like great arholar fleuri Coanda, the same

turat lo cull il thu "Counda elfeci".

Dinn Meraru was --born at fiturgiu und gradualed from tho Construction Facutty in Buchacest. From corly youth, lits pussion urged blim lo sludy the lield of consolitation, protection and restoration of historical monuments. If o benefitied by the support of prestigious collaborators and professors, such as architect Duilfu Marcu and professor Alexandru libeorghtu. Iu a short period ha because uplouly a perfect pracilitoner, but also ha author of original melhods and lockniques, auccessively patented in Romaula, the USA, Great Britatu, Belgium, West Germany, Italy, Franco, ele, Recently, in his capacity as UNESCO expert, he was luviled by the Bulgariou government to lake port in soving tim Thrustan tomb of Kazanlyk ond the church of Boyana, white in Hunsary he was juviled to hetp to maving the underground monuments of Procs. The effect bearing his name, based on a physical allowing of rephily draining the water from walls, has carned him international fame and recognition.

Special morth goes to engineer Mornry for his motived of engineer

Special moril goes to engineer Mornru for his molited of restoring and preserving frequoes and murals. His highly sorupnious work has made bim reach also present the model of the control also persuaal conclusions regar-also persuaal conclusions regar-ding the origin of the colours used by mediacval mariers, in bis opinion, this famous "Voro-nel blus", considered by most sperialists to be of a vegetal orlsin, is made up of several co-. lours oblained from semipreel-

searches. One year later he be-

itisincical anthropology and palenanthropology have found in whether themselves the most anthogisative representatives of these domains, a fact that has been arknowledged both in the rounity and abread. History, medicine, geography, graphic act, aculpinee, linguistics and of course, anthropology are disciplines that the Romanian scientist masters with the competence of an expect of wide and thorough cradition. Through their joining and in irrecomplementary within on Intellectual universe ruled by an unfolding logic—this knowledge has allowed that to pencifale to the ulsewer areas in the past of mankind and to decipher some anazing enigms to the existence of our anexabra. arded the World Culliant Prize, the first distinction gravied to a Bouganian by the UN tulernational Control of Studies and Resonarius. His inventions have wen numerous prizes in the country and abyond. His merits in the realm of restoring cultural assets carned tim the Gold Medni of the failing Academy his work Solar Capala was awarded the Diplaman of Honour of the Energy '83 international exhibition slaged to Monireus. In Brassets, the cume year, he olso secured the Silver Medal for his "Joenized solar spiril".

At the age of 58, sill young

"Reconsiliations", our roticenter said, "have been made before, starting in the late 19th ocuture, on some fossits famous in the beginnings of pulcoanthropology. These first reconsiliations were made in collaborotion with fine artists. However ucrupulous it may have been the secution of these periraits rould on make up for the scoreity of information on the relationship beliveen the skull and the soft its uses of the fare. Towards the beginning of this century, outstandingly merilocities was the coulribulies made by some pleacers of bemind merphology to obtaining sinistic data related to the above mentioned merphological related to the above mentioned merphological relationship. Their names were A. H. Schullz and Mithail M. Cherasimov, to whom I personally eve mov, to whom I personally owe the beginnings of my activity in

this domain. With the help of the data they generously provided me with, I was able in euvo lime, going beyond live first stages. They urged me to find my own way to reach my goat and thus I rune to create an original method of graphic and plastic reconstruction relying on orthogonal projections. Using this method I succeeded is raconsituting House creetus javanensis Szugiran II, Home ercotus mod-jokerlensis Infans and Home sapiens praesa plens stoinhelmensis. The first two were suggested to me by their very discoverer, professor H.H.R. vou Köenigswald, and I worked on them partially here and partially in his jaboratory at the Uirochl University. Home ercotus med-jokerlensis was offernd to me for aludy and reconstitutions. this demain. With the help of

ti di companya tan' anche di materia per distributativa di transferi appropriata del materia del materia del materia di 

us a tworld lits?".

"What scientific data support this going back to the depths of history and pur-history?"

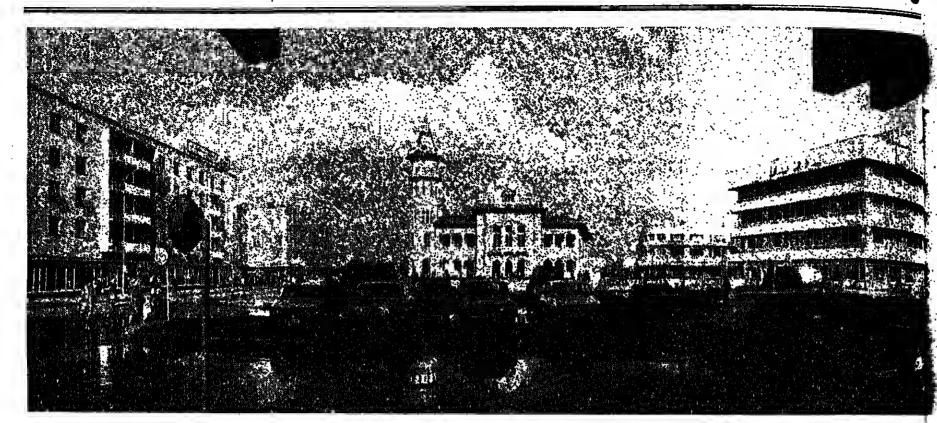
"Hesenreless have been able to establish some corretollans between the bone structure and the soft parts of the factes, of the other delaits of the humae or animal organism. A rectain type of skeleium driemines a certain type of physiagammical structure. The experience we have are under dendrines the fact that a eigenous observation ran take as risser to the truth. Of course, we are concerned with the rigorous re-making of human anatomy the way the Greek or Roman aritst was. Tha latter proved such a keen observer of the physical structure of mun, of its vertability within the chalcal types, that the works of the Roman or Greek sculptor con its at the basis of any scientific analysis of the physiognomy of ancient populutions. On Trajaa's Columa, an expert eye can not only make out periraits of Daclans and Romans but olse these of Sarmatians and German. It is thereform understandable that the contemporary authropolog'st can find in the ancient model a severe guidn to his interpretations." Your mathod is known and

Your mathod is known nni "Your mained is known and much approclated abrond, whore you have been invited saveral ilmes. In West Gormany, as visiting professor at the Technological University in Brungwich you reconsilluted the physiogramy of some skeleton vegities from the Bronze Age. On this occasion you also used your own pholostoreologic, method of analysis and reconsillution."

The method was also used bere for feeling twinstip, it is a new experiment worldwide. a niew experiment worldwide. The investigations reported live twin oblideen from the Bronze Age discovered in Runstedl. The operation proved a suring glapitative in the sterie arrangement of the senge organs, within the airucture of the skull aventiough the development of the skull aventiough the development of the skull west on in a less similar work.

been invited to 7" bern invited to ?"

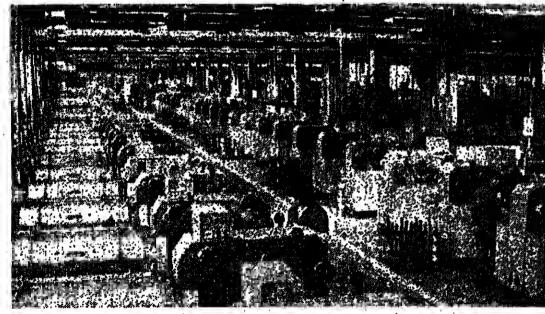
"In West Germany to the Anticopological Institute of the Moinz University, where in wife and I were farlied to make this joint on the polygique of the max important discoveries of German pro-history. Thus to Institute our photographic multiple on photographic including the 300 skeletons of the bostes? The Signa as part of a bostes? Thought for the contest the proposal universities?"



## THE HARMONIOUS DEVELOPMENT OF ALL THE COUNTRY'S REGIONS THE DYNAMICS OF A BALANCED DEVELOPMEN

ausau caunty, which was created two decades age following the country's territarial-administralive reorganisation, cought up rather quickly with the whole cauntry's impelsious development poce. A poorfy industriolized region twentry years oga, Buziau county now holds a top place in the monufacture of a number of products of major impartance to the number of products of major impartance. la the nutional economy. At the end of lost your, Buzau municipality (the county seat) by itself turned out the whole production of 1968 in less than one

soles to the population has increased five times during this finterval. Nearly 30,000 flats have been orected in the county seat, the number of shaps has doubled, very much like that of aducational establishments, health care units have trebled, and the number of physicions has grown 2.5 Ilmes, Creators ond benoliciories of culture became ever more nu-merous with every possing year. The pulse of a new life has left its imprint on the dostiny of these



# THE IMPERATIVES OF MODERNIZATION

relovance. The lawn with largo boulevards and squares whare boulevards and squeres where or whiteclural harmooles point to an inspired combination of iradillon and moderally is conficient with the fodustriol area, of true young heart of the locality.

The Ecterprise for wire out wire products had the honour of being the first major oconomic unit in Bozic's industrial life. Its first installations were started up in 1988, Compared to that year, whee only 30,000 ions of wire were produced, today's enterprise can be concidered a true gimut of the Romantan iron and steel industry. Its last factifies were put into operation in the beginning of this decade. Thu enterprise's current products are on a par with shuling products to the world institution of the most highly processed metallurgical products in the decade, the fuzzu only my fact of the form is any fatting most in threads thinner than a spider's web.



competitiveness therefore for efficiency, has called for a conlinual modernization effort. Aller a collective within the enler a collective within the conler a collective within the conler a collective within the conler active participated in the Song
to Romania Nationat Festival
with an invention — the manufacture of the inbular electreda
— now this invention has maferialized in a cow groduction
unit. The first 30,000 tony of
wire belong to a semilmental
history, a history which those
who witnessed and were involyed in this continual modernizaiton effort evoke in moments of
respite. In the decisive year of
the on-soing quinquennium, the
colerpise produces, aport from
Romania's outtre metel cord output, 80 per cent of her weldlog
electrodes. 95 per cent of bre
welded gauzes, and 50 per cent
of drawn wire. We cus say
therefore that the work of the
pecole here is linked by thousands of lasting, resistant threets,
to the work of all creaters to
this country. in 1978. A remorrinsive pagranine of neusires mini olined of boosiling labour paductivity, the efficiency of a whole activity, led to the boosiling labour paductivity. whole activity, ten to the predeficial processes. Moreover, the promotes of mechanization and adoption makes possible a 1652 precent increase in labour productivity. The metal sheet and in this enterprise is given the metal sheet and in this enterprise is given the metal sheet and in this enterprise is given the metal. and precision of a jevele while the execution to time di large number of uniques me lizes the ingenuity of the entir

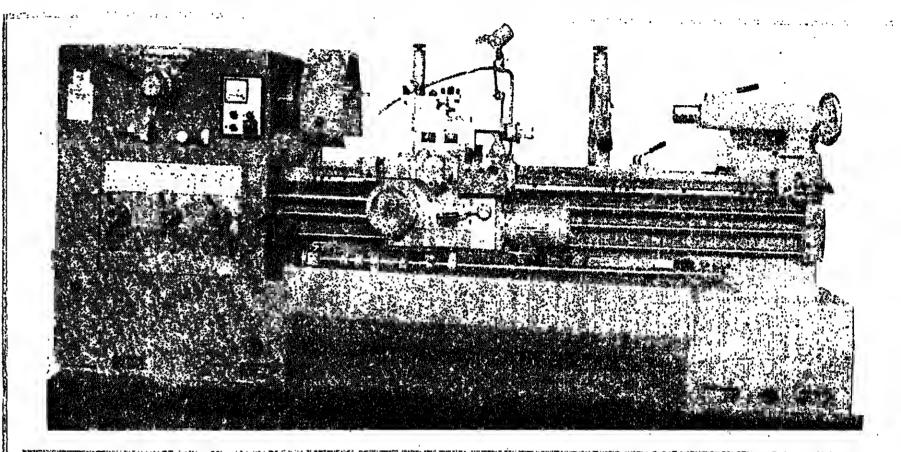
priso, a survey of industrini iredillons to Boxan was oftempled. Io 1925, the first mechanic workshops, employing less than 20 workers, word cell up on the clio of the crosent enterprise.



The plotures or these process of the ges feature instanted at the new architecture instanted at the new older with trail flowed under the process of the pro

# ROMANIAN

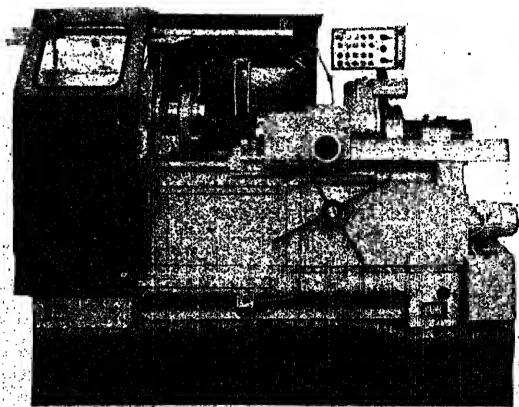
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oble outomatic presses o high-precision power presses o die stomping prosses • shape shoars • sheet flonging and rolling mochines • guillotine shears • combined shoors • forging hommers honfing, brooching and mortising machines o automotic machine ing fines • automotic assembly lines • units and other machines made according to technical projects • mochine tool occessories • tools and hand tools.

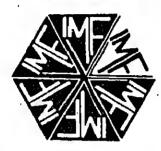
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- · All these and many other products which con be monufacfured occording to your request ore offered by our enterprise on highly competitive terms.





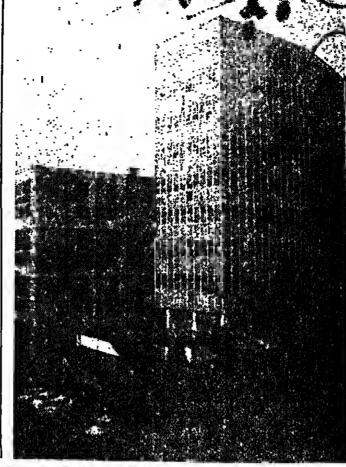
FOREIGN TRADE COMPANY . BUCHAREST 32 REPUBLICII BLVD. . PHONE 137596 . TELEX 1.1206, 11216 . CABLES: MEXIM

# THE FINE MECHANICS ENTERPRISE



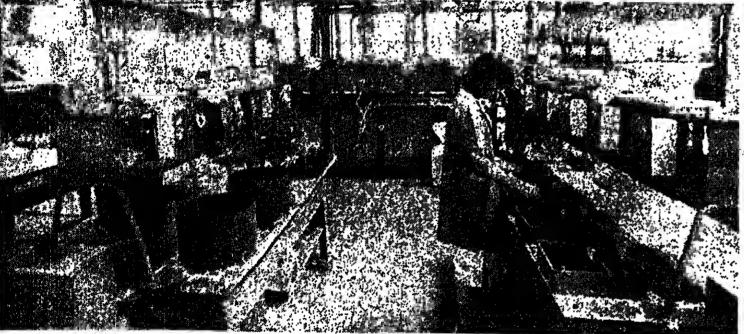
The Fine Mechanics Enterprise of Bucharest, ane of the big producers of measuring
and gauging fixtures in Ramania, affers
high-accuracy devices for the measuring of
external, internal, circular and flat dimensians, gear, surfaces and angles. Its manufacturing programme includes dial gaugas
and micrameter calipers with dial indicator,
direct-reading and camparisan massuras

far bare-hales, passmetars and level micrameters, thickness measuring devices, gear pitch error and thickness measuring fixtures, pratractors and supports and accessaries far these devices. Length measuring devices maet world quality standards and can campete with similar praducts made by traditional firms,



cure dimension accuracy, ennomy of time, giving sutomile urders according to litprogrammue.

The vocalian for top perfet mances in The Iwelve enterpt ses of the CIMF is sold; grounded on the schilly of its own institute of research, is sign and technalogical engle ering for flao incchanics and tools. A real contro of technical and icchnological creation the institute surplies idea. and solutions to product departmants staffed with highskilled workers and leebald ans abla to impari the highest quality to each product The rosourch and production, it aantinunus flaw of informs tion between those who design and those who execuls prof da tha guarentce far the his techoinal level and securer of the measuring and cooked llevires praduced by he CIMP enterprises.



# MEASURING AND CONTROL INSTRUMENTS

## MEASURING AND DIMENSIONAL CONTROL INSTRUMENTS

- dial indicators
- bare checking and cantrol instruments
- camparatar instruments
- gear measuring instruments
- angle measuring instruments and apparatus
- surface measuring instruments
- supports and accessaries for measuring instruments

# APPARATUS FOR ACTIVE AND PASSIVE CONTROL BASED ON MODERN PRINCIPLES

- active cantral instruments for universal and surface grinding machines
- passive control instruments with electric cantact and pneumatic transducers
- electronic apparatus for rugosity contraf

The reage of products inallides 536 distinct families totalling some 22,000 standard sizes. Of them, 30 families of produats heve been assimilated of leta, the shere of the new and redesigned products being of over 20 per cent.

over 20 per cent.

Io ordar ia achieve its programme, the Fina Mechanics Enterprise adopted and improved the letest technologies specific to each family of products. One of the meny possible examples are the diamond wheels with golvenia hood for processing a wide range of materials. Starting from the technology hought from the Vinter company of West Germany, the Fine Mechanics Enterprise has achieved elimost twice as meny families of diamond wheels than the discuss intigate conteined. Among its performances we could mention the wheels for the olectronic industry used for cutting integrated circuits, translators and thyristor pintes. The width of the out is anly 0.26 mm, which substentially reduces the waste of expensive materials resulting from outling. We could also moniton the diamond wheels with gelvanic hond aged for outling synthatic resins, the wheels for processing sintered mutal carbides, etc.

The fruit of the Fipe Mechanics Industriat Central's creative offeris is the active control devices used "eatly un machine tools. devices controlled with nie blues and feeter



# REMEMBER THE



## IMF TRADEMARK

IMF is the mark you can see an all products turned out by intreprindered de Mecanică Fină (The Fine Mechanics Enterprisa) in Bucharest. The fabrication programme of this enterprise which is one of the most modern in Europe includes the fallowing groups of products:

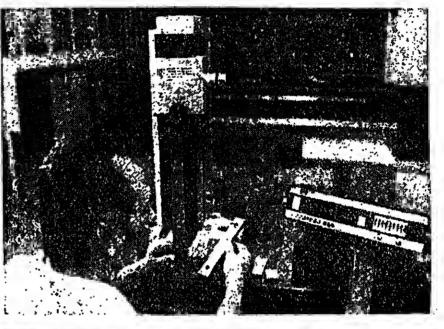
\* apparatus and mechanisms of industrial haralogy \* opparatus for the control of thermatechnical magnitudes \* automation elements for reguloting pressura and temperature \* taols, de-

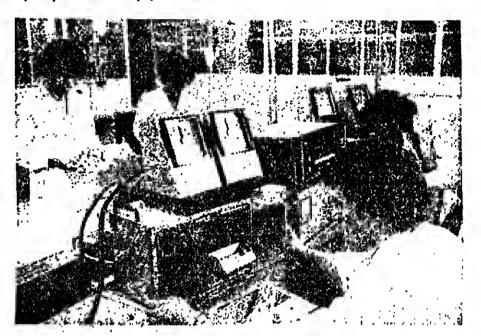
vices and matrices of products of sintered metal carbides.

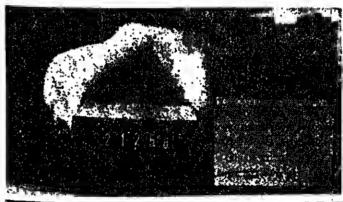
Superior accuracy parametras, high technical standard and camplexity, a wide range of aplicability, endurance, highly efficient constructional elements — these are same of the leatures baasted by the dimensional control and measuring instruments and apparatus and of the tools bearing the IMF mark. Do not forget: they impart superior functionality, maximum safety of aperation, great productivity to your machinery

and installations, and a high quality to your pra-

Tha tradition and vast experience amassed by the anterprisa in its 30 years of existence, its contribution to making its partners' products profitable explain why the IMF products are in great demand in 35 countries on four continents among which Bulgaria, Czechasfavakia, Egypt, France, the GDR, Paaple's China, Wass Gumany, Liberia, the Netherlands, Paland, Spain, the USSR and the US.







# HAND TOOLS, DEVICES AND MATRICES

#### DIAMOND TOOLS

- diamond taois manocrystalline and polycrystalline diamond taois far processing grinding stanes
- diamand wheels with metal and arganic bonds for pracessing hard and extra-hard materials
- metal-bonded diamond tools for special processing
- diamand drawing dies
- diamond pastes



#### ON THIS PAGE:

- Overlical micrometro with oloctronic consier

  alectronic speedographs
- for iocomotives
  impulse electronic conoter for counting machines
  projector microscope
  checks

#### ON THE ADJOINING PAGE:

- View from the galvanic workshop of the diamond fools section
- Vlav from (5.0 lengthmeasuring ond control byparatities section



# MANUFACTURER: THE FINE MECHANICS ENTERPRISE

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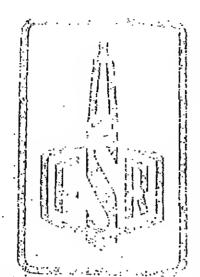
## EXPORTER:



electroexpertimepert

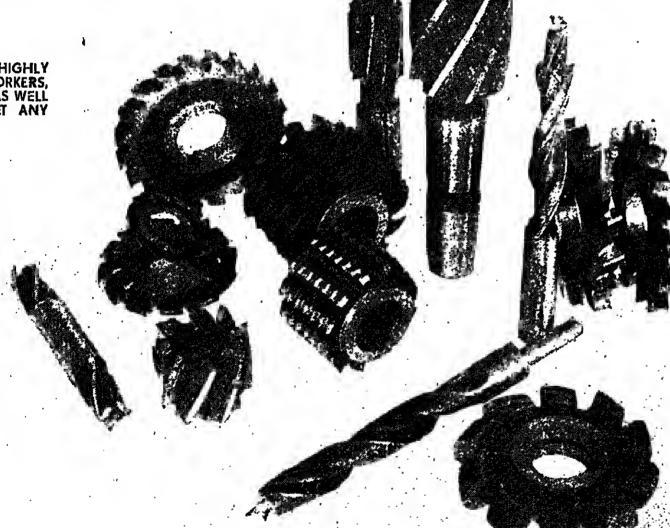
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- Autamation elements, equipment and installotions far all the economic and social sectors.

We shall enumerate same subgroups of products: field and panel automation equipment, distribution and control electrical equipment, automated equipment and systems controlling technological processes in all economic branches, transmission and data processing equipment, teletransmission and data processing equipment, machine tools, cantrol equipment. autamated testing equipment.

Also on affer are personal installations and equipment as well as turn-key deliveries. Increase Ing are the deliveries to countries such as the USSR, Egypt, the GDR, Cxechoslovokio, Iran. Irog, Bulgaria.

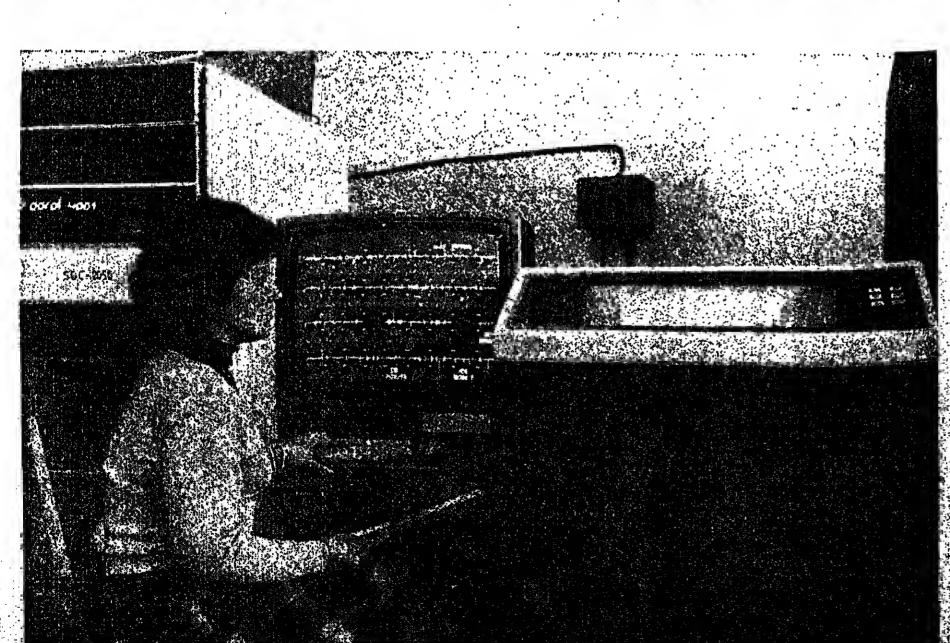
- Computer technology equipment such as: medium-capacity computers, minicamputers, microcomputers, personal computers, graphical systems, invoicing and bookkeeping machines, peripheral equipment. These products ore exported to People's China, Cxechoslovakia, the USSR, the GDR, Switzerland, Austrio, West Germany, the USA.

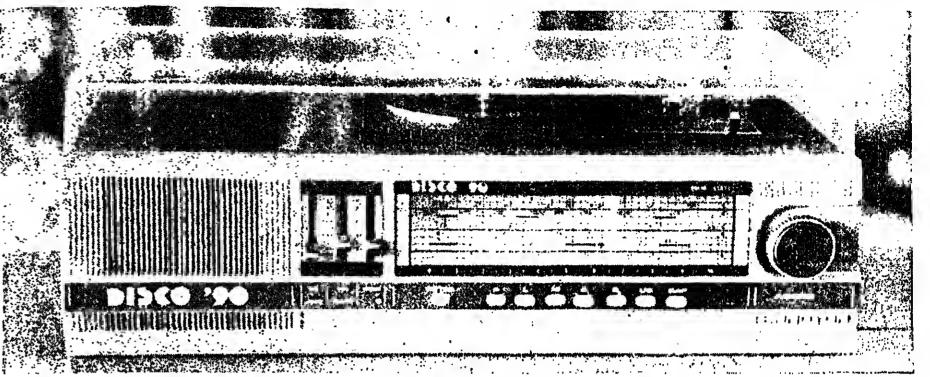
The electronic components cover a wide range of diodes, transistors, integrated circuits, resistors, condensers, etc and are exported to Bulgaria, Cxechoslovakia, the GDR, Poland, Franco, Italy, the United States etc.

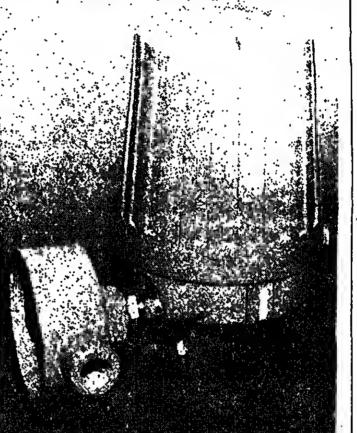
Consumer goods such as radio receivers, radio cassette recorders and ty sets. These products are exported to countries such as Wost Germany, Britain, the Notherlands, Czechoslovokio, the GDR, the United States.

Also toking place through ICE ELECTRONUM aret he export of licences and knowhow, the granting of technical assistance and softwore,









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ICE ELECTRONUM imports a series of equipment, opporatuses, electronic components and vorious moteriols for the electronic industry and audio-video consumer goods.

An important portner in the export and import conducted by ICE ELECTRO-NUM is the Soviet Union.

ICE ELECTRONUM -**Buchorest** colloborates with the Soviet enterprises V/O **ELECTRONORGIEHNICA**, V/O STANKOIMPORT, V/O MASHPRIBORINTORG, V/ O TECHMASHEXPORT. ENERGOMASHEXPORT, V/

O TEHNOINTORG, V/O Supplied to the USSR are adjustable drives lor machine tools, automotic telephone exchonges, computer technology, while that country exports to Romonia electronic components, technological equip-

ment for the electronic industry, computer technology and audio-video consumer goods.

The colloboration with

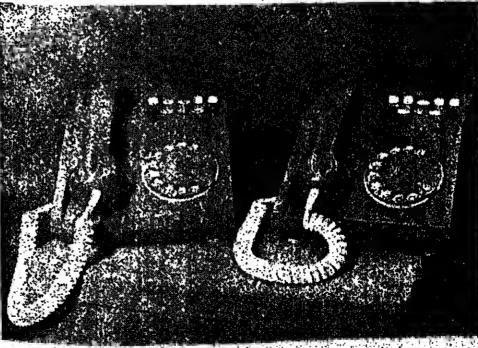
the Soviet foreign trade enterprises also occounts for the cooperation in production, that is Soviet electronic components ore used In manufacturing electrical drives, computer tochnology equipment and automoted telephone exchanges to be delivered to the USSR. At the same time very important is the ob-

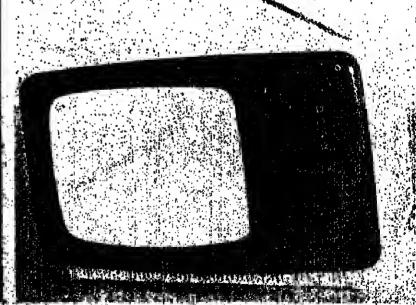
servance of all delivery dotes, aspecially as concorns the electronic components which are vital to the rhythmical realization of the equipment production plan.

According to onnual muluol exchange protocol stipulations, the volume of the exchorges between **ELECTRONUM** and the Soviet foroign trade enterprises is set to grow every

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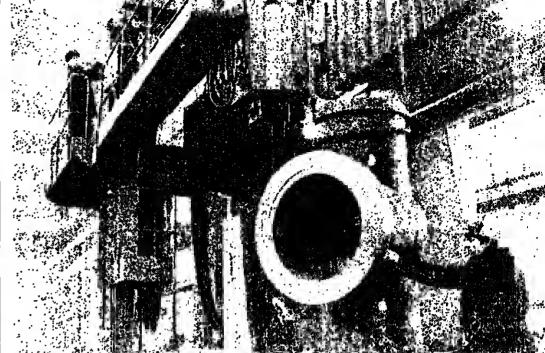
## THE CONDITION OF A VILLAGE

Brådeans is a village in the lingau Platin numbering more liban 4,600 inhabitants. On this sunny day in early spring, the village was looking its heal, with wellirimmed yards and piets of land waiting for the first nursery transplants. As the village lies in the path of the shepherds descending from the mountains to the Danubo's marshes, transhumance left deep marks in the residents' material and cultural life, marks which lend this locality a strong individuality among rural settlements. And if the people are fond of this legacy, this is yet another expression of their leve for their native plarr.

1 listened to the chairman of the large producer cooperative farm, engineer Siefan Nisior, speak about the best chernomem, a soit which even in droughty years, and without irrigulon, yielded 5,000 kg not upon the bradeaus farmers is vegetable growing. Moru than 18 per cent of producitin in this sector is expuried. It is natural

lherefore that personnel training abould be a real concern in this remmune. Mirees Doublirayon, the communits moyor, declared that ducing the winter 22 young graduates from the local school were carolied in order to be trained as farm machine operators. The village trains specialists it needs so that the productive potential of the soil may be turned to the best account. And this concern is only a still, defining the present conditions of the village, it also learned about other achievements of the village. The water charge occessary for all households was ensured by deep drilling.

The small industry and public services turn ont a production worth over one milling tel. The existence of a dispensary for people and unother one far animals, three schools, three locates of rullare, libraries camprising 25,000 septes offer the rue image at the village's sortal and cultural life, tradeanu is a village tying in the finean Flain which welcomes spring with wisdom and good management.



Rimuleu Saeal rould have remained a place where nothing over happened. But things worked on differently because an apart of this Romanian land have been left unturbrid over these years. The published our alid befound in the architectural style of some infulings, Well conserved, the rallway station dates back to the time when the railway was built, Beshies the old edifice the constructions of the young town speak about the present tife of the people.

Suffice It to mention that Rimnieu Sáral produces, now the nutput of 1968 in only 35 days. Documentary sitested in 1468, Rimnieu Sáral developed at a slow pace until two decades ago, Even some of its older enterprise, the ready-made ciothes

Binuleu Sacal rould have remained a place where nothing over happened. But things worked out differently because no spot of this Romantan land have been left unfourthal over these years. The published our these years, that published a nura of the old borough can still be found in the architectural style of some buildings. Well conserved, the rallway station dates back to the time when the railway was built. Besides the old ediffice the constructions of the young town speak about the present title of the people, Suffice II to mention that Rimning Sacal produces mor the nulput of 1968 in only 35 dace.

missioning of this plant, now a high school prepares highly trained convors. New profes-sions are fearned by the lowa's

stors are learned by the towa's yantics.
Engineee George Tananges told me about the capitalization of technical intelligence within the enterprise. A collective of waters and engineers decler a new type of filters based on home-grove to-search. With a checking rapacity of 99.8 percent and an automated shaking system by means of pneumate vibration and mechanical dispharge of the receiving bin, the



# A PEASANT

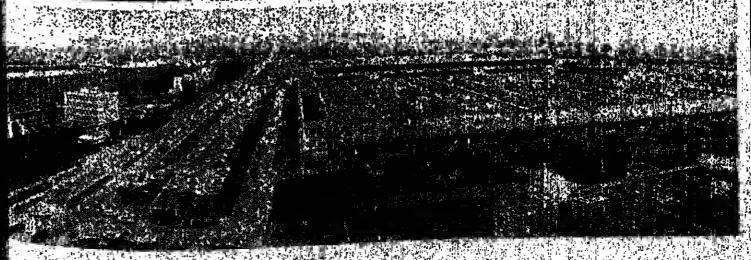
Along the years Dinu Gheorghe, chelrman of the cooperative producer farm in Smeen, has been visited by many people, including culturel and artistic personalities. They have come to meet him, to talk to him, to see the achievements scored by the formers of Scored. Uncle Dinu received them all with the hespitality of a geed manager. Their interest stimulate in him the calm joy of a man who can chare some of his experience with others. Evec if he did not appetly somehow emphatically his profession of a farmer, his physiognomy would hetray him. It is not just the face or esture which belray him, hut mining the fronte marks in his looks.

My visit interrupted him while he was husy. He was checking pea before sowing it. Like any peasant, he relighed the carry spring weather; quite antishes reading a rood literature book going to his heart. Dinn Gheorghe was visited even by writers who were amaxed to leave hew much is necessit could.

classics are piled on his desk.

More than two decades age peasant Diou Gheorghe was elected chairman of the Coopecalive Producer Farm of Smeoni. And he has continued to lead the destiny of that neil preserving his quelly of a posent, of a son of the land, Now he prides isimself upon the elilio farm where mybody can admire a heautiful schewenent of Romanian animal husbandry. Calife belouging to the Bruna of Algamures breed are explicitled fo their full capacity. The simest 4,500 i of milk gathered from every foddered one prove that the race has managed to adapt itself even to the pials, It is quite a delight to visit such a tarm. Commind alleys timed by borgeoning vine claiks, modern gluds, gebrianist reserves of well managed fodder, give you the image of work done properly, showing the farmens trus passion for animal hreeding. In fact Ding Gheorghe confessed that it was on easy task to resoon such a lovel. "Not just acyloody can work with us in adimal breeding to led me trying breeding to led me trying the farmens that has must be the firm of the such a capacity of the firm of the





prite produced a new of IGFE 488 from wi

confex

The science of elre frontes was called to have Ity say on sou ing at the Electrocontact oull

THE REPORT REPORTER

of Rotosani. Engineers designed a complex muchine tool selecting active seed and inigned a complex functione lagical and clinical tests, for ring protonged report, a restor scientific active seek lagistic preparation, made the used in asthetic conditions, as a useful adjuvant to a superior seek lagistic preparation of the loos, as a useful adjuvant lagistic protonged report to the loos, as a useful adjuvant lagistic protonged report to the loos, as a useful adjuvant lagistic protonged report to the loos, as a useful adjuvant lagistic protonged report to the loos of the loos from inactive ones. Through an original and ingenious forhandogical chalu, condensers, transisions and pulentiometers can "trul" the Iruli silli darmant in a serd and long. By its onerging efficiently administered in the freatness of the condition of the condit melubolic regulator and a ment of masteriality masti-

ils. It is also efficient to certain forms of hypericophilo oliesily and high blood

From the State Office for Inventions and Macks, we rerelved the following arcoint made by engineer tou Marineseu, director of the Office to the opposite of the opposite of the previous year, restly to the previous year.

PATENTS AND

"To our salisfurilon, most of the applicollons for patents undo in 1987, the same as over the last years, une the priority requests of the nathual commany. Under the permanent guidance of the Nathual Council for Science and Technology, last year, the activity of interming the enterprises and remained units shant new patents was expanded. Practically, over 50 new patent theories have been set up to new patent libraries have been set up la

INVENTION

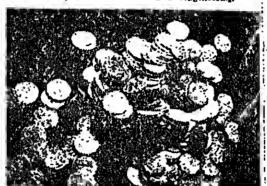
on the basis of a programma calc. On the basis of a programma calc. by the National Council of Science; by the National Council of Science; I consider the paper of the measure of the theulification and profession in according patents of all the crisical lines, the number of applications for the lines, and inventions registered by langual 3,000, a record to Romain at

#### ARCHAEOLOGICAL ENGINEERING

Romanian archaeological engineering specio-lists are conduciling in-lense research aimed of torning in scientific advantoge the national mit-seum pairtmony and brinseem pairimony and britiging to light new board a
and materiol fraces of
the civilizations which
sureceded one unother on
the country's tritiony
Recently, the gold colus
in a large Byzantine briard dating from 1221—
1300, which was uncarthed to Tulers grants, barn 1300, which was uncarfi-ed in Tulera rounty, have been onalysed by means of the nuclear reactor, the agriction, and X-roy thioriserury. One could thus determine the evo-lition in their of the ana-type of curs. lysed cuins, their gold content and the metal's control and the metal's origin, which provided important rues as to the Byzautine moneiary policy. It has been proved that olirbuting the coins to a porticular issue on stylistic grounds alone enn lead to errors. The

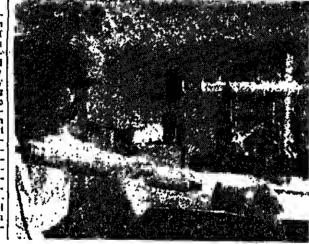
X-ruy flunrescence

netive rarbon dising a pieces at great blister value. Homanian articular coloriem by severed remarkable severes also in the selection. present are entire at the Ramon department (see from the latentury RC, Other researches of arresers also in the stient fle investigation of sec-uld history eradics. Me-leods have been design for unappelic prospetto chaculogical interest are cauchogical interest are rarried out with the Tan-dem nurlicle arcebeatur, one of the few fasten-ments of this kind existby nicans of the partiti nraion magneloweter be luse for Nuclear Physic ing in Europe, for radioand Englaeering.



### PERFUMES

AND WITAMIN E The Organic Chemistry Cyntre (ICECTIM) of the Central Chemistry Institute shows a permanent concern with fine organia synthesis, which have a row material of shaple steneme and small value but complex products of a high principality of a perist headed by engineer Gheorghe Mihal hos worked out a technology for processing vitamin E, which is very useful for motinolining the brophism of the human body and enhancing the animolal reproduction capacity. Having a prelentious molecular weightecture, this vitamin can be synthesized through a serupidous, sirp-by-sice construction in order to rhouse the best chemical strology from the points of view of economicalarss, profilability and of the points of view of economicalarss, profilability and of the possibility is used domastic row moterials. The Romanian experts have passed a fough test of scientific maintainty, harmoniously blending exidation, alkylotion, reduction and substitution reactions thearty all of chemistry's chopiers) conducted in rundillons of powerful cooling and heating, of various and overpressing, with various eatolysts. Thus, Romanio has become one of the procedure authors. We should also mention the 12 original technologies of obloining perfumes devised by a teom headed by engineer Mihot Elian, some of which are opplied on the existing installations.



### INDUSTRIAL ROBOT

Among the Romanian o - | mention should be mile oblevenums of technical the TM-03 generator F physics cereally humologo- translateer for cleaning & led mention should be ma- tronic, mechanical pais, do of the laser for stelling in well as the DU-3 ex equipment and for unreline smuch disintegrator and look executing rank perfo- for researches in melic rations as well as for rinnt-blology, chemistry, but nel exervation installations, a.p. RIV-I industrial ab devotion of the Institute made by the Institute of Physics and the Techno- Physics and Malerial Ist logy of flathellon Equip-nology tax five degree ment, the large cultur freedom and o cooked to "FLAC" has a special guid- less with dynamic menting precision and n great it can be used in the particular to the control of reliability in conditions of chino building, wood, 300

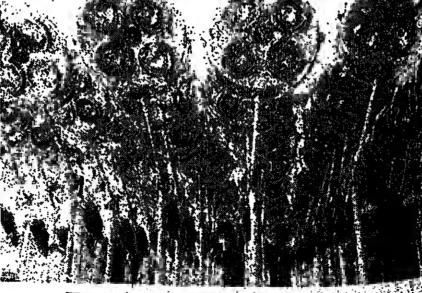
hullding sile. Among the late and coramics later



#### BIOTECHNOLOGIES

Secondary oil recovery biolebine-lugies are cutroutly being tested on puri of the [CEB]OL programme. Beleviol distribution of the programme. Beleviol distribution of the programme. Beleviol distribution of the procession of th

organic sobstances in of-cohols, nichano and hy-drogen. New, more offi-elooi systems for the pro-duction of blogas have been devised. Among obeen devised. Among other things, one is improving a method of callivoling on alga which
produces o hydrocarboo
with tong catenolions,
Other biological technologles being finolized are
oliaed at the extrarileu
of metols from Iean ores
ond stag dumps. Special importanco is being
aliached to rescorahes
into the alilizotion of ainto the nillizotion of a-quatile plants for energy purposes. Two subtrople-at plants, Pistle and Elekhornia, oltarneterized by high blomass-produn-ing rates, boyo aiready storied to be systematio-ally outlivated. These plants have been exponi-ed oit scores of licolarcy in 28 countles, Wildo-sco-ne raspersh is holys copo rescorch is being conduoted with a view to dovising some phorms-cological, onimal breed-ing and food lectuologlos. Enzymallo complexor have been developed for reguloting ferments-



### TRANSISTORIZED NANNY

Several high-loch products meant for fighling discource have been distained by the inchalted mealloat industry. Here are instant a matter bables, a kind of decirolities for the family of galvanic bathinis filter on the pollment condition with a big density of bulbs in which the application basks in light and heaft. The cell tune galvanic bathinis has compartments for hands and feet. The electronic mail supplying and feet. The electronic mail supplying and feet. The electronic mail supplying and frequency provides a fingle physic.

FLORIN CONDURATE





#### VISUAL AND METAPHORIC

In the Shakespeare exhibition of posters permitted by a unitary theme, opened at the Hollen Half in Burharest flue order Nicoloe Carmella displays the same took black oud white full of imagistic ideas. This is big sixth one-man show t four in Hurharest and two in West Germany illustrical and Uncilingen). It is activity can also been illustrated by his frequent participation in many group exhibitions singed here out abroad, where he won prestigious distinctions, surh as the tirst prize at the nation-wide conlest of posters (1981), the Ramanian Fine Artists' linion prize for black and while, the Diploma for high professionalism and lifes at the world confest of pur-lers (Moseuv, 1982), the Esphorum of Merit at the Best of the transfer of the tr

KEEN OBSERVATION

STAR The Tandarica

tappet Theatre in Buchacest has recently pre-scaled the premiere of Signum in Ar-lecting that are in the premiere of Signum in the premier of the premier

chino illariequin's dia-1. The sarcomplay written in the commedia dril'aria mouncer) and clogo management are the work of Moha Chirità, while scone pointing is roucelved by F. Piruniesou, Adrosses Idana Stoica, Florcolino Tamase end Simona Mairanscu from the Buteranscu from the Buteranscouters.

ranses and Simons Mar-ranses from the Buc-harest-based Small Theatre are the lead-log performers.

Arts Directors Club International exhibition (New York, 1987). Highly appreciated was his cirver poster in which he satisfied the tlags of all countries gathered in the Great Forum under the form of a unitying ver-lical zipper (the notions' consensus), for which he re-crived the hiploma of thorour at the UN World Fonlest of Postres (New York, 1982). In the present exhibition, the display of apparently

simple means of expression amplifies meanings and structures libras, reconstituting the "Shakespearean onlycraal languago" through a new order of risual CHURCHER THATAN M

Photo: M. CRATUI U.

#### 引起的 manal Ax in contact **电影图图**

Homanian physile artists purifequied had year, with warks of painting, semiptore, graphits, lapestry and earlinatures in 38 international glass exhibition in Tokyo ganized in European, Asian and American countries. Thus Homanio was represented by rollective parifyipations at the Internalional Qualifecture of Sremagaphy in Progne at the Eugenving, Salire and Hamour Heminist in Varia and respectively (bulrove (Bulgaria) at the internalional in Valuational of Ranska Hystrica in Internalional Art Blennial in San Paolo and the Engraving. Triennial at Winterthur (Swilgaria) at Winterthur (Swilgaria) as well as at the Children's Hook Hustralional Fortrait Indian Headshaw (Crechoslovakha). Pointers Traian Hradean and Isrob Lazar garlifpaded in the internalional Portrait Innustin Points of the Painting Festival at Cagnussian-Mer (France).

Menilon shunds he aiso made of the Isdinshing artists who participated in greating and Stefan Points Sunda and Stefan Points Sunda and Stefan Points Sunda (Prance).

Menilon shunds he aiso made of the Isdinshing artists who participated in greating and Stefan Points of the Isdinshing artists who participated in greating and the Prances of the Isdinship and Wanda Allindral events graphic artists Silvin Balas, Clara Tanua-Hisler and Wanda Allindral to Indiana, and Prances of the Isdinship and Wanda Allindral to Indiana, and Indiana to Indiana, and Indiana to Indiana, and Indiana to Indiana, and Indiana to Indiana. All Indiana to Indiana to Indiana to Indiana to Indiana, and Indiana to Indiana. All Indiana to Indiana to Indiana to Indiana to Indiana to Indiana to Indiana. All Ind



not out if innecessed bill be fellered by a chain of weak-cause guilf is generalized, does and cannot tive without everyone is guilty of having it and therefore to snoth ventout and diversity, with done something. "Candour specimens speaking becomes

#### la not a synonym of horat- "a way of living". ROMANIAN CULTURE **ABROAD**

Romonia to Brussels, prosonied were algoriticant moments from the Roma-pian people's history. At the arms illms highlight-od were the achievements

nglicitim, As part | secret in the present of a conference | sector of the country,

JORDAN. A Re-mantan folk feelt-val was organized at Amnian, under the again of the Jurdanian Minking of Tourism. The

opening gala was aliented, antong others, by men of art and outlyre, journalists and many catters. A Romanian folk ensemble displayed a selection of dunces, traditions and usions specific to all Romanias others are properties.

\* ROMANIAN

ROMANIAN

ROMANIAN I

· ROMANIAN

I have often, in vorious oir-cumstances, heard a name ac-cumpanied by superialize ap-preciations. I had not met that prison but the frequent men-tian of bis nome proused my curiodity.

curiosily. Belore appreaching hist, I used an lunacent Irick; I turno t into a virius patient and asked Eugenia Popovici (a real pallent) which were the merits of the famune it. Dinu. "First of all, this physician never chacks bla watch even though his consulting hunra exceed bir daily programme. In front of the August Dinu your colors one dr. Anrel Dinu you feel as one of his collaborelors. The sin-ta of suffering disappears. The consulting becomes no occasion

for discussing the necessity of a seriain medicollon, of baineal

a scriain medicollon, of bainea; and physiotherapy procedures from which you emerge without daubts, substantially calued. Then we should not forget that Sinala Sonatorium, as it is today is the work of dr. Dinu, whose caim smile never dies..."

Those words seemed rollier convincing (and were amplified daring our documentation). Tho tall, distinguished man could ba

tail, listinguished man could be casily recognized by his omple, equal and generous emilalishing his face. He confessed that there, in Sinaia, he had been working office 1981 when he was on probation. This morits? Not bigger than those of his seven fellow physialans in the sanatocium... Our discussion

Views from an ethnographic

Views from an ethnographic and folk art nusoum in morthern Romania (Cimpuling Moldoveneso) which ireasures vainable ancient pieces gallored clong the centuries and praserved in on onvironment of a remerkoble natural and cultural beauty

NAME OF THE PROPERTY OF THE PR

was interrupted by the phone ringing. A polient from the nocili of the cauntry asked him if... He was given the necessary advice with the sama smile... Br. As rei Dinu returned to our conversation, emphasizing that the profile of the cenated by was the freetingst of several plants. ing that the profile of the sena-terium was the treatment of se-culled light neuroses — determi-ned by a certain physion; sai psychical exhausiloa. Sinale — a writ known national and in-ternational tourist locality — became a bainoni resort thunks to its natural conditions: loraled at the foot of the Burrgi
Maunialus — 800 m allitude —
If heneitts by pure, exenated
air with negalive lous, by a reInlively low atmospheric pres-

eure, ultraviolet radiations; a mountain londxeape luit of charm nud recreation possibili-

is laventar, a few years ago) —
and "Asiavital" — unother reputed original product); the
cure with Magnetodiaflux — a
Romanien inventina treoting incommiss inventis freeing in-thorapy end dieling, gyms on a swimming pools, are only ceme of the censfortum's tharapeutle or the constorium's tharapenile means, in the last decade over 10,000 patients (from Romania, France, italy, Belgiam, iteliand, Engleed, West Germany, Spain, Isroel or Mexico) and over 500,000 tharapautic methods hove hera registered here yearly. Obviously, the doctor of in-ternal medioine Aurel Dinu bo-came, after sustained studies, a epealaist in beineology. But ac-cording to the patients as well

samello once. Is shall are tre-aled, among nihrrs, omioprino-melabolic diseases (illabales mel-litus, hyperihyroldism, etc.) co-rebral or peripheral circulatory disordars, high blood pressure, and non-evolutive chrocic rhe-umatians. The patients benalls

by o complex physiotheropy and hydratherapy treatment (class

or fir iree esseeco halhs, infil-iretions with "Belcil" — with which dr. Dian πorked next to

cordieg to the patients as well as to our convictions, the chlof physician of Sinaia bainan ennatorium has also excellent knowledge of psychology. The talk we had with him, was beyond strictly statistical date, full of a perceptible franquilizing effect. We would have continuod this discussion hut I knew that dr. Dinu was to leave for Belgiam the next day, where he hed been invited for a sere he had been invited for n ac-ries of medical conferences. Our host did not seem eager in our nost did not seem enger in gel rid of his guesis. I left despite his insistence to cisy longer, accompanied by his warm, generous smile which wing and henly his pationis.



Great Hisleriens. An International Dictionary is a work day to be released in Bucharest ihrough the contribution of over specialisis from ceveral scores of countries. Contracted with the Greenwood Press where it will be issued in English, the dictionary will cover nimest 1,000 entries divided into two volunces. The work is coordinated by dr. Lucien Boin, full professor of historiography at the finestry of bistory and philosophy of the Bucharest Univernity, who clean authors the introductory sindices of the two volumes (the first one antill 1800, and that eccond covering the 19th and 20th conturies), and like articles on Ramonian historians and aericin from the Bucharest University. French historians. Coapied were another four professors from the Bucharest University, Ligia Biczu — he chorgo af opeololists in prehistory, Siellan Brozeanu — dealing with Byzenlino hischarm and recreation possibilities in any mason...
The phone rang egain. A patient from Rome was calling and the chief physician of the sanalorium answered him in ficilian addressing him, from the distance, the name henevolcul stello. Our host lold us as an excuse i "I receive 10 to 15 phone calls daily, from verieus parts of the country and the parts of the country and the world..."
Dr. Aurel Dinu otlered ac an



Dr. Aurel Dinu otiered as an argumont the literopeulic effect of the Carpathians"— as Sinaia is called—thanks to its natural qualifies. Indeed, as soon as you enter this loarist lown you feel year tangs and blood cleaused, the rhylbm of walking and litinking becoming free. And if you look up toward the meantain tops all your cores saddenly dinappeur...

It is also true that heyond the It is also true that beyond the natural climato, the canctorium fed by dr. Annol Dinu has complated its curative possibilities, by a wholn sories of means, trealing other diseases, associated as not in the co-called correct

Since 1838 a museum of wood-work bas been innctioning at Cimpulung Moldovenese, in the northern part of Romania. A anique of its kind in Roma-nia, the museum is the result of efforts mode by ecveral genera-tions of tircless resources, passionale collectors of treasu-res of folk art and ethnography.

Gothered here are more than 15,000 places worth entering any patrimony, divided into collections illustrating ecospations like hunting, frait picking, animal breeding, beckeeping, activities reloted to construction, household industry and exploitation (sail, sulphur end crude oil), the concern with huntifying the concern with boautifying the

orders — date back to new century A.D.

Extremely valuable is a complete collection of musical last ruments orealed by the besants of Bucovina: horns, took cas, cembalos, gilhers, shell herd's pipes and long enophards pipes, Several species of rational wood for last since the cyrace fir of Bucovina! [architecture for this highly appreciated. As a milit of fact cartain foreign reservicing, of fact cartain foreign reservicing, of Cremona was made of resonant wood brought food Bucovina, while tollay numerous appealable from the hearths of Meddarite vana and Pojotita, hear clumb lung Maldovopes. A nalive of the land, the well-known wolling with land, the well-known will research with the Factory of Myorre old, whe mill recently worked with the Factory of Myorre old, whe mill recently worked with the Factory of Myorre old, whe mill recently worked with the Factory of Myorre old, when mill recently worked with the Factory of Myorre old, when mill recently worked with the Factory of Myorre old, when mill recently worked with the Factory of Myorre old, when mill recently worked with hand stock.

environmani. The lop of a trial oil mill bearing Meldavia's arms with a blson's head is considered by specialists one of the most valuable word places oxisting in the world, worth of illustrating the qualifies of primitive ort as the precursor modern art. The oldest exhibit wood seel long used as fooitridges — date back to the 3rd century A.D.



## THE LITTORAL — A SOURCE OF GOOD HEALTH

 A health cure in the Ramanian resarts strewn along the Rainanian Black Sea caast can be undergane also during the cald seasan. • Whatever the seasan, the littaral can cure a large number of affections, but even more of them can be prevented thanks to important natural factors. Efarie, Nard, Neptun, Saturn, Mangalia and Mamaia resorts and treatment bases apened all the year raund

Fat your vacations the Efarie Sud, Venus and Jupiter resorts lie at your dispasal.

are sovering almost 250 km, trashed by the Black Sea, the Romanian coast boasts broad shorte with this sand, ultromotor resorts built in a charming architectural siyle, There ara at sources of pollutios, suny days are sunny, good for sunbalbs, within medium ranges of lemperature.

Siird al the some oliltude as Venice, the Cote d'Azur and Valta, the littorel is Itomania's warmed geographical area, known for its niboule, well innised climate of sleppe with temperate mering elements,

ed Nunia Zamfirel (Zamfira's Wedding) which offers o rich falk programme. Is the vicinity there is the TECHIRGHHOL therapeuts lake with sapropelle mad and woler with a great concentration of sail.

MAMAIA, sited between the sea and the Mameia take, five kilmmeters north of Constante city, has a few kilmmeters by uninterrupted brach eavered by extremely fine sand. An isthmus full of vegetallum, washed by the sea and the Mamuis take (experially designed for aquallu sparts) com-

MANGALIA, the sonthermonst acaside resort
fill kin away from Constanja) has a mild climate, with
pleturesqua aid houses atternating with the sline siftoneties of
the modern pilitless. The heach
is vost and line elegant botals
are spread along the acavalt.
Here are important archaeological
museum and a house of culture.
The Monophia treatment hotel,
opened throughout the year, has
a treatment base fistributed on
wards for therapy with saprapelle mult, pools. Installations
for freatment with sulphurous
water, sections of hydrotherapy,
medical gym halls, sections of
gerinicia and acupuncture,

gerinicies and acupuncture,

tich in ultraviolet radictions and marine acrosols; he sea breese chaires a stable temperature, a uniform regime of rainfalls permaneelly refreshing the air asturned with negative ions and acrosols, hearing well-kaewn lherapeulle effects.

The Romanien seashere offers multiple treetment possibilities hacks mainly le natural factors—springs at accolhermal weiers et Mangalin, sopropelle mud in the Terhightiol Lako which has acceptioned literapentic quafilles, the sea water and mony lakes abundant in mineral ealis.

All these sources are most effectively used by the treetment centres functioning all cound the year — modern sanafortums organized excellently in holeks, equipped according to the demands of world's most advanced medical technology, allowing for a vasi and rational lherapy.

From Navedari ie Vama Ve-

From Navedari ie Vama Ve-From Návodari ie Vama Verba a neckiaco af resorts — Mamais, Etaria Nord, Tochirghiol,
Elorie Sed, Conlinejli, Neptua
(with the Olimp ensemble of
holels), Jupiler, Venus (with
the Aurera range of hololo), Saturn, ead Mangalia offer tourkis a spirudid vista with modern balels built in a both funclloaal and fanciful architecture,
surroueded by lokes and a laxuriael vegetalion.

CONSTANTA is the gate for lourient on the Black Sea coast. The largest sen port of the country, Constants is also full of museums (historical, archaeological) valcable exhibite), or woil as many menuments of architecture and ari, performance boils, etc.

oakiree ferest (Comerova). Its hetela boast a vacled architecture, remarkable through the suppleness and eleganch of their silhousties. Rosides, there are villas, louisties. Rosides, there are villas, louisties. Rosides, there are villas, louisties. Rosides, there are villas, louisties and elegantable.

The painest polyelinie of the resort is opened all round the year being furnished with significant the resort is opened all round the year being furnished with significant words for ejectiotherapy, made the rosides for ejectiotherapy, massage, mellos gymnastics, gartacles, iteast ments with Pell-Anak.

Two jakes (Neptus I and III trained the appelle sports and lains fark amissement senses lound off the multiple passibilities of regression offered by the resort. In the northern part of the resort is the Olimp sace, with the control of the state of the resort. EFORIE NORD, siled hetween the sea opd the Technicol lake, 14 km south of Constanta, is a resort for sommer holidays and at the same line a bolneal centra opened all round the year. A rich veretation astrounde an exceptional heach protected by a high scawall offering a vant paneral ma of the cea.

An important halneal sanatorium with test toboratories and incellonal explorations, installations for warm mud packings, bant me favande ballen, estimation of affections abovers, a sampa, installations of the locomotory, a salent in the peripheral nervous evelential in ham, and a sale many modern holeis, sale, haw, aports grounds, respansate, haw, aports grounds and haw aports grounds and haw aports grounds and haw appeared and haw app

grounds, sports balls, a sauna, nuassago rooma, nu Olympic pool, residurants providing Ro-

NEPTUN-OLIMP, lying atx kilometers north of Mangalla town, has a pic-

meiro away from Mange-lia is a drightful resort with elegant holds using gines and cernmie decorative elements. adding to which are villas, tourisi villages, sports grounds, restauracle (mention should be

EFORIE SUD is a resurt sited in an area full of vegetation, with old heurers omit modern holets, villas and eminp grounds, sirewn atong a mognificent scowall. It provides trealment with therapeutic mud, while for recreetion the resort has pools, sports grounds, etc.

ing beach near a locest, a real easis of tresinces. Elegant holels border the sea, while the two tourist villages (Zodiac and filliand), the comp grounds, the Paradis amusement centre, the sports grounds and the pools round off the resort's

VENUS—Athona. A real home of lanchiness in the architectural style of the landamental presence of the sea. An ensemble of 10 holes bearing names of predous stones (Damant, Safte, Ilubin, Tonez, etc.) make up the Aurora area, there is a pacillon with two pools, a centro allowing for treducents with mesothermal eniphurous waters, it has sporte grounds, shops and a lamous resignent. Commit. offering VENUS-AURORA, A rerestauend, Calmud, offering Romanian dishes and o folklera

COSTINESTI IS a locally lradillonally negativing the youth's international earny every summer. Carnivals, erenio a youthful olmosphere.

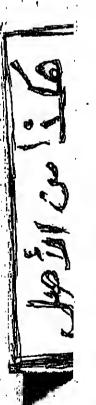


FOR THE EXTERNAL CURE: degonerative rhounalic affeotions (cervical dorsal and lumbar spondyllits, arthritis of various kinds); inflammatory rheumatio affootious tarificial relations (inflammatory rheumation affootious tarificial relations, ankylosing spondyllits, psavintlo arthropathy, rheumatoid palyariritis); riccumatio abarileutory rheumation affocilous (endinitia, tendomycals, londoporiositiis, scapniolnumeral perinritaris); postiraumatio affections (postiraumatic articulatory stilfness, physical sielea after apornilous on musolos, tendons, articulations and bones, states after spriaus, iuxatious and fractures); peripherol neurological affections, (postiraumatic pareses of times, polyneuropathy after the aonic phase, polyradianlonauritis in the edge, sequeloo after pollomyelitis); affections of the conical nerrous system (paraparesis after myclitis within three monlin from its debut, paraparesis after arabholdisis); gynacological affections (ovarien inaufficiency, chronia resvicilis, phronic offection of in ovaries and the ovidusts, secondary sterilly, sequelae after genital TB iwn or ihree years after alabilitation); dermainlogical affections; respiratory affections; associated affections (otorhinolaryngelogie, cardiovascutar, endocrine, molabolio and nutrition, occupational diseases). • FOR THE EXTERNAL CURE : degonerative rhoumable af-

• FOR THE INTERNAL CURE (only at the balness canalo-rium in Mangalia) a chronic affections of the discourse apparatus, obronic affections of the bittary duets, estimate metabolic affecti-ons and allorgic discasses. Biantion about he made that these records apply freatments with the Romanian original products PelleAmar, Gerovital, Boich forle, Asiavital, etc.







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During any seosan the Ramanian Block | Sea caast is a saurce of health, its downy cansisting of :

- saprapelic mud
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- mezathermal mineral water springs - balneal cure centres of international
- recreation means of great diversity.

Fareign taurists, caming in large numbers ta spend their vacations an the Black Sea caast da it nat anly far the advantage of a mild climate but alsa far ather reasons.

lent faad in elegant and camfartable hatels and restaurants, highly efficient natural factors far balneal treatment, balneal sanataria with saphisticated medical equipment, multiple possibilites far arganizing trips to the surroundings of the Ramanian littaral as well as to the Bulgarian Black Sea caast.

Through the wide range of natural con-ditions, the technical equipment and ma-dern treatments applied, therapy on the Black Sea caast affers good canditions for recavery, praphylaxis as well as treatment all the year raund, in Efarie Nard, Mangalia

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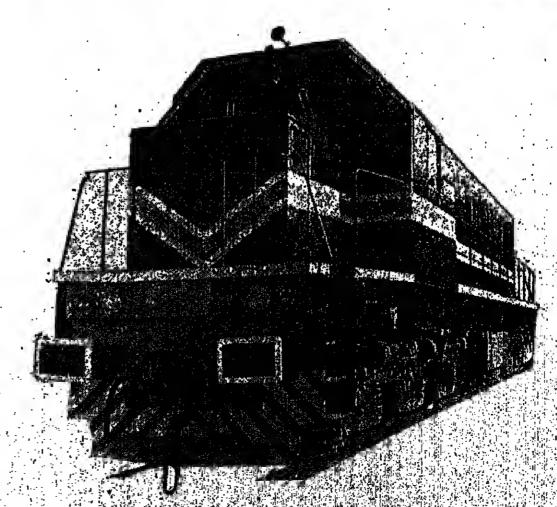
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